Form PTO-1595 Rev. 09/04/70932 OMB No. 0651-0027 19xp. 6/30/2005) 10-07-2 10-07-2 10-07-2 10-07-2 10-07-2 10-07-2 10-07-2 10-07-2 10-07-2 10-07-2	United States Patent and Trademark Office
To the Director the U.S. Pales and Trademark Office: Please	e record the attached documents or the new address(es) below.
1. Name of conveying May(les)/Execution Date(s):	2. Name and address of receiving party(les)
AT&T Wireless Service, Inc.	Name: Cingular Wireless II, LLC.
	Internal Address: Suite 1700
Execution Date(s) 10/27/2005; 4/11/2005  Additional name(s) of conveying party(les) attached? Yes No	Street Address: 5565 Glennidge Conn.
3. Nature of conveyance:	
Assignment Merger	City: Atlanta
T Assignment	
Security Agreement Change of Name	State: Georgia
Government Interest Assignment	Country: USA Zip: 30342
Executive Order 9424, Confirmatory License	Van (☑Na
Other	Additional name(s) & address(es) attached? Yes V No
	document is being filed together with a new application.  B. Patent No.(s)
A. Patent Application No.(s)	See Attached Sheets
See Attached Sheets	₹ 3
	See Attached Sheets  OP 77 14  Tochet? Ves No.
Additional numbers at	tached? Yes No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 513
Name: Cinquiar Wireless, LLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 20,520
Internal Address: Attn: Linda Giles	Authorized to be charged by credit card
#1725A	✓ Authorized to be charged to deposit account
Street Address: 5565 Glenridge Connector	☐ Enclosed
Speat Address. 3303 Otenhage Salansas	None required (government interest not affecting title)
	8. Payment Information
City: Atlanta	a. Credit Card Last 4 Numbers
State: Georgia Zip: 30342	Expiration Date
Phone Number: 404-236-6720	b. Deposit Account Number 502450
Fax Number:	Authorized User Name <u>Coulter C. Henry</u>
Email Address: linda.glles@cingular.com	Addition Cook to the Secretary House
9. Signature:	9/27/2005
Signature	Date
Coulter C. Henry; Reg. No.: 51,121	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	Silent Stroning and Spening of

#### **Patents**

5197092	5889814	6085114	6334188
5541977	5896425	6092110	6343120
5611176	5903845	6118778	63 <b>59923</b>
5638081	5905955	6122503	6363127
5641141	5907565	6125122	6373931
5659578	5907801	6134261	6377783
5675590	5909641	6141545	6377787
5675629	5923700	6144851	6389087
5722084	5930362	6157633	6393014
5724660	5931965	6158008	6393283
5732354	5933421	6160839	6400940
5732383	5933778	6167261	6404388
5737707	5940740	6167274	6405032
5754952	5946615	6169895	6405041
5784417	5950125	6175555	6408016
5790551	5950134	6185258	641 <b>18</b> 07
5802470	5953652	6188736	641 <b>830</b> 7
5809083	5956636	6188897	6418318
5819173	5960339	6188899	642 <b>707</b> 1
5832367	5960340	6195532	643 <b>0396</b>
5838728	5966642	6201797	6442222
5845198	5974311	6219542	6445716
5845207	5991410	6223042	6445912
5854984	5995830	6229885	6456843
5864543	5995834	6230009	6459740
5865503	6002664	6239719	6459897
5870722	6002935	6256518	647 <b>00</b> 43
5872814	6006087	6256735	6470182
5875187	6014559	6282420	647 <b>3623</b>
5875394	6035193	6282421	647 <b>737</b> 6
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5875398	6047200	6311064	6480720
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6570983	6725033	5455964
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6577723	6748209	5652792
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6580914	6754490	6449287
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#### Patent Applications

10/941247

10/933677

10/940576

10/939103

29/213592

10/367981

#### PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is executed by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") f/k/a AT&T Wireless Services, Inc., on the one hand, and Cingular Wireless II, Inc., a Delaware corporation ("Assignee"), on the other hand.

WHEREAS, Assignor is the owner of certain patentable inventions, patent applications and patents (as disclosed and set forth in Schedule A; collectively, the "Patents"), which Assignor desires to assign to Assignee; and

WHEREAS, Assignee desires to accept such assignment of the Patents.

NOW, THEREFORE, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. Assignment of Patents. Effective as of the date hereof, Assignor assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all of Assignor's right, title and interest in and to the Patents, all agreements and contracts of Assignor related to such Patents (the "Related Agreements") and the improvements and inventions disclosed in said Patents throughout the world, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions and improvements in Assignee's own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries. Assignor authorizes and requests the Commissioner of Patents and Trademarks and any foreign registrar or governmental authority to issue all patents on said applications or applications resulting therefrom to said Assignee, as assignee of Assignor's entire interest. Assignor agrees that it will communicate to said Assignee or its representatives any facts known to Assignor respecting said improvements and inventions, and, at Assignee's expense, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said Patents in all countries, and asserts that it will not execute any agreements inconsistent therewith. Assignee acknowledges that Assignor's assignment of any jointly owned Patent identified on Schedule A shall be subject to any rights such joint owner may have in such Patent.
- 2. <u>Assumption</u>. Effective as of the date hereof, Assignee hereby assumes the due and full payment and performance of all of the liabilities and obligations of Assignor under the Related Agreements.
- 3. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the United States of America and of the State of Delaware.

- 4. Successors and Assigns. This Assignment shall inure to the benefit of and be binding on the successors and assigns of both parties.
- 5. Patents Subject to Consent. To the extent that any of the Assignor's right, title or interest in and to the Patents or any other rights, contracts, agreements or assets of the Assignor related thereto and/or liabilities or obligations of Assignor purported to be assigned hereunder may not be assigned, transferred or conveyed to, or assumed by, Assignee without the consent, release, authorization or waiver of any third party and such consent, release, authorization or waiver has not been obtained prior to the date hereof (such Patents and other rights, contracts, agreements and assets, the "Non-Transferable Patents" and such liabilities and obligations, "Non-Transferable Liabilities"), this Assignment shall not constitute an assignment, transfer, conveyance or assumption or an attempted assignment, transfer, conveyance or assumption thereof. In this circumstance, this Assignment shall to the extent possible under the Non-Transferable Patent and applicable law constitute an equitable assignment by Assignor to Assignee of all of Assignor's right, title and interest in and to, the Non-Transferable Patents and Assignee shall be deemed to be Assignor's agent for the purpose of paying, performing or discharging the Non-Transferable Liabilities on behalf of Assignor. Assignor shall take all actions reasonably requested by Assignee to provide Assignee with the benefits of the Non-Transferable Patents, including with respect to the enforcement of rights with respect thereto. Assignee shall, with respect to the Non-Transferable Liabilities, pay, perform or discharge in accordance with their terms all liabilities and obligations of Assignor under the Non-Transferable Liabilities. If Assignor is unable to effect an equitable assignment of any Non-Transferable Patent, Assignor shall transfer to Assignee an amount of cash equal to the fair market value (determined as of the date of this Assignment) of such Non-Transferable Patent.

[signatures on following pages]

Executed this 21th day of October, 2004.

Assignor: NEW CINGULAR WIRELESS SERVICES, INC. f/k/a AT&T Wireless Services, Inc.

By:

Title: Vice President - Carporate Development

APPROVED:

GEORGIA STATE OF COUNTY OF

On this 31 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stephen A. Mc Gaw known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

Sherry of Garret

SHERRY L. GARRETT - NOTARY PUBLIC

County of DeKalb

State of Georgia

My Commission Expires Oct. 16, 2005

Acknowledged this 27 4 day of October, 2004.

Assignee: CINGULAR WIRELESS II, INC.

By:

Title: Vice Precident-Corporate Development

KEPROYELY

COUNTY OF

On this 27 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared Stepher Mc Gaw known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

SHERRY L. GARRETT - NOTARY PUBLIC

Sherry & Harrett

County of

State of Georgia

My Commission Expires Oct. 15, 2005

# Schedule A

## **Patents**

• All inventions and trade secrets and related rights of Assignor not otherwise listed below

Docket	Application	Patent	, and a	Country	Application Date	Grant Date	Title
Number	Number	Number	OWIG				Antenna for Enhanced
9	001100663	5638081	AT&T Wireless	United States	15-Jun-95	10-Jun-97	Radio Coverage
145.05	00/490000		AT&T Wireless	United States	07-Jun-95	09-Sep-97	Antenna
148.US	29/041775	D383463	Alai Wilcies	troton -			
000	05902387		AT&T Wireless	Convention	06-Oct-94		Antenna Mounting System
148.ETC	00000	6014444	AT&T Wireless	United States	06-Jun-95	24-Jun-97	Arrangement of Displays
149.US	1965220	3041141					for a Wireless
21.031	29/024956	D389140	AT&T Wireless	United States	23-Sep-94	13-Jan-98	Wireless Communications
20.00		D363281	AT&T Wireless	United States	23-Jun-94	17-Oct-95	Terminal Personal Communicator
153.US	29/024955	03050		Linited States	76-Nov-97	01-Jul-03	With Flip Element Display
154.US.C2	08/979110	6587700	AT&T Wireless	Omited States			Personal Communicator With File Element Display
154 US.C2(1)	10/455125	1	AT&T Wireless	United States	05-Jun-03		High Rate Reed-Solomon
							Coded 16 Star OAM
					10	. ·	System for Transmission of Data Over Cellular Mobile
	•		•		22-Nov-95	17-Feb-04	Radio
155.BR	P19509749-0	P19509749-0	AT&T Wireless	Diazii			High Rate Reed-Solomon
							Coded 16 Star QAM
							System for Transmission of
					22-Nov-95		Radio
155.CA	2203903		AT&T Wireless	Canada			

ATL01/11768196v1

-								
Docket	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	
							High Rate Reed-Solomon Concatenated Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile	
155.MX	9703830	195559	AT&T Wireless	Mexico	22-Nov-95	16-Mar-00	Radio	
155118	08/344156	5659578	AT&T Wireless	United States	23-Nov-94	19-Aug-97	High Rate Reed-Solomon Concatenated Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile Radio	
20.55							High Rate Reed-Solomon Concatenated Trellis Coded 16 Star QAM System for Transmission of Data Over Cellular Mobile	
155.US.C1	-626907	5838728	AT&T Wireless	·United States	06-May-97	17-Nov-98	Radio	
156.BR	P19509908-5	mailed	AT&T Wireless	Brazil	22-Nov-95	13-Apr-04	Cyclic Trellis Coded Modulation	
156 MX	9703831	196647	AT&T Wireless	Mexico	22-Nov-95	25-May-00	Cyclic Treilis Coded Modulation	
156 US	08/344111	5675590	AT&T Wireless	United States	23-Nov-94	07-Oct-97	Cyclic Trellis Coded Modulation	
156.US.C1	08/890507	5931965	AT&T Wireless	United States	09-Jul-97	03-Aug-99	Cyclic Trellis Coded Modulation	
156 JIS D4	08/570289	5784417	AT&T Wireless	United States	11-Dec-95	21~Jul-98	Cyclic Trellis Coded Modulation	
156 US D2	08/581477	5907565	AT&T Wireless	United States	17-Nov-95	25-May-99	Cyclic Trellis Coded Modulation	
156 US D2C 1(1)	10/039038	6578173	AT&T Wireless	United States	04-Jan-02	10-Jun-03	Cyclic Trellis-Coded Modulation	
156 US D2C1(2)	10/434385		AT&T Wireless	United States	07-May-03		Cyclic Trellis-Coded Modulation	
					×		System and Method for Wireless Transmission of Digital Data Using	
157.BR	PI9509910-7	P19509910-7	AT&T Wireless	Brazil	22-Nov-95	17-Jul-03	Differentially Encoded Pilot Words	·· :
157.CA	2203902		AT&T Wireless	Canada	22-Nov-95		Differentially Encoded Pilot Word System and Method	
				-		•		

4							-
Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Name	Dale	25	for Wireless Transmissions
						• .	of Digital Data
							System and Method for
							Wireless Transmission of
							Digital Data Using
				Movioo	22-Mov-95	16-Mar-00	Words
57.MX	9703832	195560	AT&I Wireless	MEXICO	20.00.27	9	Differentially Encoded Pilot
·.							Word System and Method
					70 170	15.Con.98	for Wireless Transmissions of Oinital Data
157.US	08/344238	5809083	AT&T Wireless	United States	73-NOV-94	20-02-01	Location Registration
						·.	System for a Personal
				Nuc man	31-Oct-91	14-Jan-98	Cellular Telephone
177.DE	566582	69128727.9	AT&T Wireless	Germany			Location Registration
							System for a Personal
						:	Communicator Such as a
	* + COOOCO	566582	AT&T Wireless	Denmark	31-Oct-91	14-Jan-98	Cellular Telephone
177.UR	92300021.4	20000			• •		System for a Personal
							Communicator Such as a
				-	31-Oct-91	14-Jan-98	Cellular Telephone
177.FR	92900021.4	566582	AT&T Wireless	riance			Location Registration
							System for a Personal
							Communicator Such as a
			ATRT Wireless	Great Britain	31-Oct-91	14-Jan-98	Cellular Telephone
177.GB	92900021.4	200282	Alai Michael				Location Registration
					•		Comminicator Such as a
				. (	200	14, 120, 48	Cellular Telephone
477 CE	566587	566582	AT&T Wireless	Sweden	31-00-81		Location Registration
10:13							System for a Personal
					:		Communicator Such as a
	•		acolomias Fore	Spain	31-Oct-91	14-Jan-98	Cellular Telephone
177.SP	566582	2112309	AIGI WIIGIGSS				Location Registration
						· ·	System for a Personal Communicator Such as a
			٠			22 Mar 03	Cellular Telephone
SI 1771	07/606523	5197092	AT&T Wireless	United States	31-Oct-90	CG-INIGI-CZ	Powered Down Selection
							of a Preferable Wireless
							Communications Service
, acc	2188334	2188334	AT&T Wireless	Canada	21-Oct-96	17-Apr-01	Provider III a Molti-Scratch
20.002					8		

Docket	Application	Patent	Owner	Country	Application Date	Grant Date	Title
Number	Number	in i					Provider Environment
							Powered Down Selection of a Preferable Wireless
	,			European Patent	12.00.06	10-Dec-03	Communications Service Provider in a Multi-Service Provider Environment
206.EPC	96120004.5	779751	Alai wireless		2002		Powered Down Selection
							of a Preferable Wireless Communications Service
	. 4 200001	770751	AT&T Wireless	Great Britain	12-Dec-96	10-Dec-03	Provider in a Multi-Service Provider Environment
200.68	30120004.3	1993					Powered Down Selection
							Communications Service
200		202068	AT&T Wireless	Mexico	09-Dec-96	06-Jul-01	Provider Environment
ZUO.MA	30000	202300					Powered Down Selection of a Preferable Wireless
							Communications Service
				00000	42 000 06	02-Oct-01	Provider in a Multi-Service
206.US	08/570902	6298235	AT&T Wireless	United States	C6-090-71	10-100-20	Powered Down Selection
							of a Preferable Wireless
							Communications Service
				Cotol Challel	44 him 00		Provider Environment
206.US.C1	1065658		AT&T Wireless	Office States	20-100-4-1		Powered Down Selection
							of a Preferable Wireless
			*****		. •		Communications Service
		700770	AT&T Windoce	United States	28-Nov-00	30-Oct-01	Provider Environment
206.US.C2	-25322	6311064	אומומומים				Memory Exceed
			-	Ŷ.			Network Communication
0	939000		AT&T Wireless	Brazil	09-Jun-97		Device
207.BK	97,00000						Memory Exceed
							Network Communication
207.MX	981350		AT&T Wireless	Mexico	09-Jun-97		Device
	200		AT&T Wireless	Patent   Cooperation	09-Jun-97		Memory Exceed Notification for Wireless
207.PCT	PCT/US97/10095		Aldi Wildias				

				•	•													·			<u>.                                    </u>						<u>.                                     </u>	-	
Title	Network Communication Device	Memory Exceed	Notification for Wireless Network Communication	Moment Exceed	Notification for Wireless	Device Database	Base Station for Collecting	Data and Switchable Into a Cellular Network	Landline-Supported Private	Base Station for Collecting Data and Switchable Into a	Cellular Network	Telephone System Having	Landline-Supported Private Base Station Switchable	Tolochore Svietem Having	I and line-Supported Private	Base Station Switchable	Telephone System Having	Landline-Supported Private	Base Station Switchable Into Cellular Network	Telephone System Having	Landline-Supported Private Base Station Switchable	Into Cellular Network	Telephone System Having	Landline-Supported Private	Loto Cellular Network	Telephone System Having	Landline-Supported Private	Into Cellular Network	
Grant Date				24-Aug-00	•	30-Sep-03		08-Sep-99	200.00		02-Jan-01				·.	- 1	18-Mar-03	,						· ·				16-Jul-98	
Application Date				23-Jun-97		07-Mar-00		12 020 07	15-090-31		17-Dec-96			24-Jun-97			24-Jun-97		24_ frin_07	10-line-17		24~Jun-97				24~Jun-87		24~Jun-97	
Country	Treaty			Taiwan		United States			laiwan		United States			Brazil			Canada		European Patent	Convention		lanan	dayan			Mexico		Taiwan	
	Owner			AT&T Wireless		AT&T Wireless			AT&T Wireless		AT&T Wireless	200000000000000000000000000000000000000		AT&T Wireless		0	AT&T Wireless			AT&T Wireless			Al&I WIRESS			AT&T Wireless		ATOT Missions	Atori Wireless
Patent	Number			114335		5620036	0000700		103007		30000	0109093					2259273					• .		:					93482
Application	Number			06400773	27,001,00		09/519993	٠.	86118807	*		08/768371		0440080 4	97 10309-4		2259273	25057		97930213			10-504243			990238			86108826
Docket	Number				207.1W		207.US.C1		209.TW			209.US			Z10.BK		240.04	Z10.02		210.EPC			210.JP	•		210.MX			210.TW

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	<b>Grant</b> Date	Title
210.US	08/671745	6035193	AT&T Wireless	United States	28-Jun-96	07-Mar-00	Telephone System Having Landline-Supported Private Base Station Switchable Into Cellular Network
211.CA	2195494	2195494	AT&T Wireless	Canada	20-Jan-97	24-Apr-01	Roaming Authorization System
211.EPC	97101730.6		AT&T Wireless	European Patent Convention	04-Feb-97		Roaming Authorization System
211.US	1951340	6411807	AT&T Wireless	United States	05-Feb-96	25-Jun-02	Roaming Authorization System
211.US.C1	10/051713	6560455	AT&T Wireless	United States	17-Jan-02	06-May-03	Roaming Authorization System
213.CA	2195487	2195487	AT&T Wireless	Canada	20-Jan-97	15-Oct-02	Location-Dependent Cellular Service Profile
213.US	08/603290	5950125	AT&T Wireless	United States	20-Feb-96	07-Sep-99	Location-Dependent Cellular Service Profile
218.BR.CP1	-74447		AT&T Wireless	Brazil	20-Feb-97		Method and Apparatus for Determining the Location of a Mobile Telephone
218.CA.CP1	2195591	2195591	AT&T Wireless	Canada	21-Jan-97	04-Sep-01	Method and Apparatus for Determining the Location of a Mobile Telephone
218.MX.CP1	971205	200820	AT&T Wireless	Mexico	17-Feb-97	09-Feb-01	Method and Apparatus for Determining the Location of a Mobile Telephone
218.US	08/472082	5732354	AT&T Wireless	United States	07-Jun-95	24-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
218.US.CP1	08/603793	5724660	AT&T Wireless	United States	20-Feb-96	03-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
221.CA	2191143	2191143	AT&T Wireless	Canada	25-Nov-96	16-May-00	Radio Telephone With Detachable Pager
221.US	08/576385	5854984	AT&T Wireless	United States	21-Dec-95	29-Dec-98	Radio Telephone With Detachable Pager
						:	Method and Apparatus for Indicating to a Wireless Network the Operational Mode of a Wireless
223.CA	2219366		AT&T Wireless	Canada	04-Dec-96		Communicator

															•							_	<u>.</u>			_		· T				_		×			_		<u> </u>		٦.
Title	Method and Apparatus for	Indicating to a Wireless Network the Operational	Mode of a Wireless	Communicator	Method and Apparatus for	Indicating to a wireless	Network the Operational	Mode of a Wireless	Communicator	Method and Apparatus for	Indicating to a Wireless	Network the Operational	Mode of a Wireless	Communicator	Wireless Communications	Sonite Provider in a Multi-	Service Provider	Environment	A Method for Selecting a	Wireless Communications	Service Provider in a Multi-	Service Provider	Environment	A Method for Selecting a	Wireless Communications	Service Provider in a Multi-	Service Provider	A Mathod for Soloction 3	Wireless Communications	Service Provider In a Multi-	Service Provider	Environment	Method for Selecting a	Wireless Communications	Service Provider in a Multi-	Service Provider	Environment	A Method for Selecting a	Wireless Communications	Service Provider III a moin-	Service Florides
Grant Date				•		:		•			٠							24-Anr-01										13-Dec-00				03-Nov-98		· .	•		28-Aug-01				Ne-Aug-oz
Application Date	3			04-Dec-96					04-Dec-96					12-Dec-95				90 100 10	21-001-30				12-Dec-96				-	96-Dec-60				29-Oct-97	2 20 27				15-Sep-98			1	25-Oct-99
Country	SHIBN		Furopean Patent	Convention					Mexico					United States		•			Canada			Fironean Patent	Convention					Mexico				11sibod Chatos	Office Grace				United States				United States
300	Owner			AT&T Wireless					A TO T VAIITOIDES	AIQI WILEIGSS				AT&T Wireless					AT&T Wireless				ATOT Missions	AIGI WIIEIESS				AT&T Wireless					AT&T Wireless		:		ATOTIMIzabase	AIGI WIIGIGSS			AT&T Wireless
Patent	Number								(		:								2188330									200025	20002	•			5832367					6282420		*	6430396
Application	Number				96944/46.3					976970	_			0.00	06/07/1050	<i>:</i> .			2188330					96120011				00000	900230		•	•	08/969710		-			09/152927			09/425240
Docket	Number				223.EPC			•	8	223.MX					223.US				224 CA					224.EPC					224.MX			•	224.US.C1					224.US.C2	:		224 115 0201

Docket	Application /	Patent	Current	Country	Application Date	Grant Date	Title	
Number	Number	Number					Environment	
	*							
							A Method for Selecting a	
		-					Wireless Communications	
			•				Service Provider in a Multi-	
						•	Service Provider	
		700725	AT&T Wireless	United States	28-May-02	03-Aug-04	Environment	
224.US.C2C1(1)	10/154856	1981//9	AIGI WIIGIGSS				A Method for Selecting a	
					•		Wireless Communications	
					•		Service Provider in a Multi-	
							Service Provider	
			ATET Wirelace	United States	25-May-04		Environment :	
224.US.C2C1(2)	-603471		AIGH WHICHOS				Method and Apparatus for	
							Storing Activation Data in a	
			ATOT Mireless	United States	28-Jul-97	26-Oct-99	Cellular Telephone	
225.US.C1	08/901827	.5974311	AIGI WIEEESS	2000			Method and Apparatus for	
							Storing Activation Data in a	
			ATOT Wileles	United States	24-Dec-98	18-Nov-03	Cellular Telephone	
225.US.C2	09/219872	6650893	AIGH WHICHOS				Method and Apparatus for	
					٠		Storing Activation Data in a	
		0000120	AT&T Wireless	United States.	09-Aug-01	08-Jun-04	Cellular Telephone	
225.US.C3	1902793	0/48209	School Park				Method and Apparatus for	
							Storing Activation Data in a	
70 01 100	40,000,0047		AT&T Wireless	United States	22-Mar-04		Cellular Telephone	
ZZ5.US.C4	10/00/2547						Method and Apparatus for	
			ATET Wireless	Canada	07-Aug-96	09-Apr-02	Spectrum Analysis	
226.CA	2182817	7107017					Method and Apparatus for	
			ATOT Mission	United States	12-Nov-99	24-Jun-03	Spectrum Analysis	
226.US.C1	09/439015	6584175	Algi Wildigo			-	Dynamically Selecting a	
		•			•		Wireless Network Offering	
	2274647		AT&T Wireless	Canada	16-Oct-97		Dispariculty	
232.CA	1164177	-		Patron Datent			Dynamically     Dynamically     Reconfigurable Wireless	
				Competition	16.Oct.97		Communicator	
232.EPC	97954673.6		AT&T Wireless	CONVENION	5 50 51		Dynamically	
	-					-	Reconfigurable Wireless	
9	20007		AT&T Wireless	Japan	16-Oct-97		Communicator	
Z32.JP	-1001-						Dynamically Occasions	
			1	Sofoto Polici	20. Anr. 08	08-Oct-98	Communicator	
232.US	08/644638	5819173	AT&T Wireless	United States	08-104-00	22 22		
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Title	Armrest Cradle for	Electronic Communications Handset	Armrest Cradle for	Electronic Communications   Handset	Armrest Cradle for	. Electronic Communications	Handset	Armrest Cradle for   Electronic Communications	Handset	Customer Activation	Network	Customer Activation	System for Cellular Network	Customer Activation	System for Cellular Network	Customer Activation	System for Cellular Network	Customer Activation	System for Cellular	Customer Activation	System for Cellular	Network	Customer Activation	Network	Customer Activation	System for Centural Network	Customer Activation	System for Cellular	Customer Activation	System for Cellular	Network
Grant		24-Oct-00					23-Dec-00		02-Feb-99			, )	24-Sep-03		24-Sep-03				24 600 03	Z4-26b-03				· <del>·</del>					07-Jan-04		24-Sep-03
Application	Date	29.Aug-96	and an area	90 00	08-490-11		22-Oct-96		30-Oct-95		12.Nov.96	20 201-31	05.Dec.06	200000	05-Dec.96	02-020-00	05-000-96	25.25		05-Dec-96	. •	05-Dec-96		05.Dec-96	2000	46 155 03	TO-JUN-01	4	28-Nov-96	,	05-Dec-96
Country	Name		Callada		Japan		Mexico		States States	20000		Canada		Germany	European Patent	Convention	European Patent	Convenion		Great Britain		Hong Kong			Japan		Japan		Mexico		Netherland
	Owner		AT&T Wireless		AT&T Wireless		ATOT Mireless	Alai Wileiess		Al&i Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT9T Wireless	Alal Wildias		AT&T Wireless	÷	AT&T Wireless		AT&T Wireless		AT&T Wireless
Patent	Number		2184424				-	200024		5865503				69630100.8		778716				778716			- an				.0		218372	7,0017	778716
Application	Number		2184424		239633/1996			965014		08/550130		2190045		96119565.8		96119565.8-2412	.*	3016354.7		06110565.8	20000		4103133.8		324896/1996		2003-170351		07000	903810	96119565.8
Docket	Number		233.CA		di erc			233.MX		233.US		235.CA	8	235.DE		235.EPC	2	235.EPC.D1		000	233.60		235.HK	•	235.JP			10: 10:00		235.MX	235 NI

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Docket	Application	Patent	Owner	Name	Date	Date	Title
Number	National			Inited States	19-10-00	03-Dec-02	Customer Activation System for Cellular Network
235.US.C1	09/619108	6490445	Atat Wildias	United States	23-Aug-02	20-Apr-04	Customer Activation System for Cellular Network
235.US.C.1(1)	CC/977/01	550570	ATRI Mirologa	United States	31-Mar-04		Customer Activation System for Cellular Network
235.US.C1(2)	2231452	2231452	AT&T Wireless	Canada	06-Sep-96	25-Jun-02	Cordless Cellular System Base Station
236 CA D4	2323253		AT&T Wireless	Canada	96-Sep-96		Cordless Cellular System Base Station
236 CA D2	2335283		AT&T Wireless	Canada	96-deS-90	·	Cordless Cellular System Base Station
236 CA D3	2435275		AT&T Wireless	Canada	06-Sep-96		Cordless Cellular System Base Station
236 FDC	96930783.4		AT&T Wireless	European Patent Convention	96-deS-90		Cordless Cellular System Base Station
2000	2077963.6		AT&T Wireless	European Patent Convention	06-Sep-96		Cordless Cellular System Base Station
236 EDC D3	2077853 B		AT&T Wireless	European Patent Convention	06-Sep-96		Cordless Cellular System Base Station
230.51.0.02	2402270.2		AT&T Wireless	Hong Kong	13-May-03		Cordiess Cellular System Base Station
236.HK2	3103313.2		AT&T Wireless	Hong Kong	13-May-03		Cordless Cellular System
230.002	200000		AT&T Wireless	Japan	96-Sep-96		Cordless Cellular System Base Station
230.JF	9212731	202590	AT&T Wireless	Mexico	06-Sep-96	22-Jun-01	Cordless Cellular System Base Station
236115	-260934	5675629	AT&T Wireless	United States	08-Sep-95	07-Oct-97	Base Station
236 US D2(1)	10/279866	6681118	AT&T Wireless	United States	25-Oct-02	20-Jan-04	Cordless Cellular System
236.US.D3(1)	10/235039	6611692	AT&T Wireless	United States	04-Sep-02	26-Aug-03	Cordless Cellular System
236.US.D3(2)	10/647105		AT&T Wireless	United States	22-Aug-03		Cordless Cellular System Method for Aflocating a
239.CA	2261927	2261927	AT&T Wireless	Canada	11-Jul-97	18-Nov-03	Mobile Station TMSI
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Title	ransmission c Channel	ransmission c Channel	ransmission c Channel	ransmission c Channel	pparatus for	ofile Updated Information	pparatus for	cation id on a offie Updated	Information	pparatus for	ation of on a offle Updated Information	pparatus for cation id on a offle Updated Information	pparatus for sation
Ţ	Packet Data Transmission Using Dynamic Channel Assignment	Packet Data Transmissic Using Dynamic Channel Assignment	Packet Data Transmission Using Dynamic Channel Assignment	Packet Data Transmission Using Dynamic Channel Assignment	Method and Apparatus for Providing Telecommunication Services Based on a	Subscriber Profile Updated by a Personal Information Manager	Method and Apparatus for Providing	Telecommunication Services Based on a Subscriber Profile Updated	by a Personal Information Manager	Method and Apparatus for Providing	Services Based on a Subscriber Profile Updated by a Personal Information Manager	Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated by a Personal Information	Manager Method and Apparatus for Providing Telecommunication Sarvines Based on a
<b>Grant</b> Date		13-Dec-01		04-Aug-98					18-Feb-03				09-140-03
Application Date	22-Nov-96	22-Nov-96	22-Nov-96	28-Nov-95		19-May-97	• .		19-May-97		19-May-97	·	19-May-97
Country	European Patent Convention	Mexico	Patent Cooperation Treaty	United States		Brazil			Canada		European Patent Convention		Japan
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless		AT&T Wireless			AT&T Wireless		AT&T Wireless		AT&T Wireless
Patent Number		205488	·	5790551	*			-	2228169				
Application Number	96939741.3	984220	PCT/US96/18743	08/563816		384115			2228169	The state of the s	97926592.3		10-500600
Docket Number			247.PCT	247.US		248.BR			248.CA	·	248.EPC		248.JP

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Application	· ·		Country	Application Date	Grant Date	Title
Number	Number	Owner			·	Subscriber Profile Updated by a Personal Information
Š						Manager
						Method and Apparatus for
						Providing Telecommunication
	-	÷			• •	Services Based on a
						Subscriber Profile Updated by a Personal Information
	•			19-Mav-97	•	Manager
19980461		AT&T Wireless	MOIMAY	2 (2002)		Method and Apparatus for
v	•					Froviding Telecommunication
						Services Based on a
			Patent			Subscriber Profile Updated   by a Personal Information
	. v	AT&T Wireless	Cooperation	19-May-97	:	Manager
PCT/US97/08455		Alai viicios				Method and Apparatus for
			·			Providing Telecommunication
		2	. •			Services Based on a
.*						by a Personal Information
		ATOT Missions	Taiwan	30-May-97	18-Jun-98	Manager
86107435	93010	AIGI WIGHESS				Method and Apparatus for
<u>.</u>			· : · · · · · · · · · · · · · · · · · ·			Providing Telecommunication
						Services Based on a
			:'		:	Subscriber Profile Updated by a Personal Information
			I Inited States		03-Aug-99	Manager
888849	5933778	AI&I WIREESS	OIIIICO CORICO			Method and Apparatus for
			,- ,- <u>,-</u> ,-			Maintaining Channel
,				·		Wireless Communication
÷	2			44_ hm_97		System Environment
9706555		AT&T Wireless	Brazil	0.100		Method and Apparatus for
				· · · · · · · · · · · · · · · · · · ·		Maintaining Channel
			· _			Wireless Communication
		ATET Wireless	Canada	11-Jun-97	22~Jan-02	System Environment
2237597	723759/	2000=14 -5-5				

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d	Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment	Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless	Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Mutti-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment
Grant	06-Jul-01	16-Dec-98	12-Oct-99	01-May-01	21-May-03	21-May-03		21-May-03
Application Date	11-Jun-97	23-Jun-97	28-Jun-96	21-Oct-96	12-Dec-96	12-Dec-96	12-Dec-96	12-Dec-96
Country	Mexico	Taiwan	United States	Canada	Germany	European Patent Convention	European Patent Convention	France
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent	202991	96577	5966642	2188329	69628270	779753		779753
Application	981511	86108843	08/672898	2188329	96120010.2	96120010.2	3011438.3	96120010.2
Docket Number	250.MX	. 250.TW	250.US	252.CA	252,DE	252.EPC	252,EPC.D1	252.FR

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant	j
							Geographic Database
							A Method for Selecting a Wireless Service Provider
253.US	08/570903	5905955	AT&T Wireless	United States	12-Dec-95	18-Mav-99	Environment Using a Geographic Database
255.CA	2282443	2282443	AT&T Wireless	Canada	03-Feb-98	14-Oct-03	Wireless Communication Service Manadement
255.EPC	98904684.2		AT&T Wireless	European Patent Convention	03-Feb-98		Wireless Communication Service Manadement
255.MX	997818	210069	AT&T Wireless	Mexico	03-Feb-98	02-Sep-02	Wireless Communication Service Management
255.TW	87101700	106908	AT&T Wireless	Taiwan	09-Feb-98	12-Jan-00	Wireless Communication Service Management
255.US	08/810959	6167261	AT&T Wireless	United States	27-Feb-97	26-Dec-00	Wireless Communication Service Management
256.CA	2244682	2244682	AT&T Wireless	Canada	11-Aug-98	30-Mar-04	Wireless Communication Device With Call Screening
256.US	08/909387	6567671	AT&T Wireless	United States	11-Aug-97	20-May-03	Wireless Communication Device With Call Screening
256.US.D1	10/406912		AT&T Wireless	United States	02-Apr-03		Wireless Communication Device With Call Screening
258.AU	16648/97	749334	AT&T Wireless	Australia	01-Apr-97	24-Oct-02	Method for Determining Organization Parameters in a Wireless Communication System
258.AU.D1	773877		AT&T Wireless	Australia	20-Mar-02		Method for Determining Organization Parameters in a Wireless Communication System
258.BR	126070		AT&T Wireless	Brazil	27-Mar-97		Method for Determining Organization Parameters in a Wireless Communication System
258.CA	2199310	2199310	AT&T Wireless	Spene	20 Yes	5	Method for Determining Organization Parameters in a Wireless Communication
		2000	Sign Mindigos		oo-mar-s/	23-Apr-02	System

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	21182			Method for Determining
	: :					. •	Organization Parameters in a Wireless Communication
			AT&T Mirelace	Great Britain	01-Apr-97	11-Oct-00	System
258.GB	9706533.8	Z311912B	AIGH WHENCES				Method for Determining
					·.		Organization Parameters III
					. •	. *	a Wireless Communication
-	101001011	•	AT&T Wireless	India	04-Apr-97		System
258.IN	CLUMASIBL						Method for Determining
			•			•	Organization Parameters in
<u>.</u>							a Wireless Communication
			ATPT Mirelace	lanan.	04-Apr-97		System
258.JP	85443/1997		Alai Wileicas	10000			Method for Determining
							Organization Parameters in
٠	•				90	17 Dec 02	System
258118	08/628214	6496700	AT&T Wireless	United States	04-Apr-90	17-000-05	Method for Determining
20:00							Organization Parameters in
•	•						a Wireless Communication
			AT9T Mississis	United States	25-Feb-02		System
258.US.D2	10/082402	.	Alai wiididaa	2000			Method and System for
							Automatic Activation of a
	007007		AT&T Wireless	Brazil	15-Jul-97		Wireless Device
260.BK	1882480						Method and System for
					02 114 07	12-1110-01	Wireless Device
260.CA	2209528	2209528	AT&T Wireless	Canada	03-00-00		Method and System for
				Fumnean Patent			Automatic Activation of a
		•	ATPT Wilcoloes	Convention	26-Jun-97		Wireless Device
260.EPC	97304542		AIGH WINGIGSS				Method and System for
				-	:		Automatic Activation of a
<u> </u>	7000110001		AT&T Wireless	Japan	16-Jul-97		Wireless Device
260.JP	190804/199/						Method and System for
					70 1.4 07	14-Mar-02	Wirefess Device
760 MX	975114	207169	AT&T Wireless	Mexico	/A-In20	14-INIGI -0E	Method and System for
				*	-	_	Automatic Activation of a
			ATOT Milesion	Nowa	08-Jul-97	, ,	Wireless Device
260.NO	19973158		AIGI WIICIESS	Comiton.		_	Method and System for
							Automatic Activation of a
, AC 090	86100681	95961	AT&T Wireless	Taiwan	09-Jul-97	16-Nov-98	Wireless Device
200. I W	10000100						Method and System for Automatic Activation of a
		5056836	AT&T Wireless	United States	16-Jul-96	21-Sep-99	Wireless Device
260.05	08/083013	2820020					

94.4   AT&T Wireless   Canada     109	Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	
10-504109	262.CA	2259329	2259329	AT&T Wireless	Canada	02-Jun-97	01-Jun-04	TDMA Messaging Service	ervice
10-504109	262.EPC	97927794.4		AT&T Wireless	European Patent Convention	02-Jun-97		TDMA Messaging Service	ervice
10-504316   5875187   AT&T Wireless   Wexico	262.JP	10-504109		AT&T Wireless	Japan	02-Jun-97		TDMA Messaging Service	ervice
1.C1         08/168919         5875187         AT&T Wireless         United States           3.C1         09/168919         AT&T Wireless         United States           97/10455-8         97/10455-8         AT&T Wireless         Brazil           C         2259230         AT&T Wireless         Canada           C         97932326.8         AT&T Wireless         Japan           C         97932326.8         AT&T Wireless         Japan           C         9793236.8         AT&T Wireless         Japan           C         9793236.8         AT&T Wireless         Japan           C         98108823         94720         AT&T Wireless         Talwan         2           C         986108823         5845198         AT&T Wireless         United States         2           C         2215819         AT&T Wireless         United States         2	262.MX	990211		AT&T Wireless	Mexico	02-Jun-97		TDMA Messaging Service	ervice
### AT&T Wireless United States  971045-8 971045-8 AT&T Wireless Brazil  2259230 AT&T Wireless Canada  2259230 AT&T Wireless Convention  C 97932326.8 AT&T Wireless Japan 1  10-504316 AT&T Wireless Japan 1  86108823 94720 AT&T Wireless Talwan 2  2215819 2215819 AT&T Wireless Canada 1  AT&T Wireless Japan 1  AT&T Wireless Canada 1  AT&T Wireless Japan 1  AT&T Wireless Canada 1  AT&T Wirele	262.US	08/672769	5875187	AT&T Wireless	United States	28-Jun-96	23-Feb-99	TDMA Messaging Service	ervice
### PATRI Wireless Brazil  2259230	262.US.C1	09/168919		AT&T Wireless	United States	09-Oct-98		TDMA Messaging Service	avice
### PAT&T Wireless Brazil  2259230	·							Method for Optimal Selection Among Multiple Providers in a Wireless	itipie
C 9793230 AT&T Wireless Canada C 97932326.8 European Patent 10-504316 AT&T Wireless Japan  10-504316 AT&T Wireless Japan  86108823 94720 AT&T Wireless Taiwan  86108823 5845198 AT&T Wireless United States 2 2215819 AT&T Wireless Canada	263.BR	9710455-8	9710455-8	AT&T Wireless	Brazil	24-Jun-97	10-Dec-02	Communications Service	vice Si
2259230 AT&T Wireless Canada  C 97932326.8 AT&T Wireless Convention  10-504316 AT&T Wireless Japan  86108823 94720 AT&T Wireless Japan  O8/672907 5845198 AT&T Wireless Canada  Canada  AT&T Wireless Japan  AT&T Wireless Canada  Convention  AT&T Wireless Japan  AT&T Wireless Canada					·			Method for Optimal Selection Among Multiple Providers in a Wireless	Itiple ss
European Patent 10-504316		2259230	2259230	AT&T Wireless	Canada	24-Jun-97	07-Jan-03	Communications Service Environment	Aice Vice
### AT&T Wireless Convention  10-504316					European Patent			Method for Optimal Selection Among Multiple Providers in a Wireless	ltiple ss
10-504316       AT&T Wireless       Japan         86108823       94720       AT&T Wireless       Taiwan         08/672907       5845198       AT&T Wireless       Canada         2215819       2215819       AT&T Wireless       Canada		97932326.8		AT&T Wireless	Convention	24-Jun-97		Environment	 8
86108823         94720         AT&T Wireless         Talwan           08/672907         5845198         AT&T Wireless         United States           2215819         2215819         AT&T Wireless         Canada		10-504316		AT&T Wireless	Japan	14-Dec-98		Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	tiple ss vice
08/672907 5845198 AT&T Wireless United States 2215819 2215819		86108823	94720	AT&T Wireless	Talwan	24-Jun-97	18-Sep-98	Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	tiple %3 %0
2215819 2215819 AT&T Wireless		08/672907		AT&T Wireless	States	28-Jun-96	01-Dec-98	Method for Optimal Sefection Among Multiple Providers in a Wireless Communications Service Environment	ed & eof
Caliana Wilanasa Caliana		2215819	2215819	AT&T Wireless	Canada	19-Sep-97	01-Jan-02	Method and Apparatus for	s for

Docket	Application	Patent		Country	Application	Grant	Title	
Number	Number	Number	Owner	Name			Providing a Caller ID Alias	
					20 100	13-Dec-02	Method and Apparatus for Providing a Caller ID Alias	
265.MX	77677	212046	AT&T Wireless	Mexico	08-0Ct-37		Method and Apparatus for	
) Jee 110	2007053	6343120	AT&T Wireless	United States	08-Oct-96	29-Jan-02	Providing a Caller ID Alias	
202.03	200 200		ATOT Mireless	Taiwan	19-Jan-98	31-Jan-00	Registered Mobile Phones	
266.TW	87100664	107516	AIGH WIEGESS	3000	24 lag 07	14-Sen-99	Detection of Fraudulentity Registered Mobile Phones	
266.US	-65895	5953652	AT&T Wireless	United States	76-1107-47	20 455	Method and System for	
							Delivering a Voice Mail Notification to a Subscriber	
							Using Cellular Phone	
311030	08/838613	6006087	AT&T Wireless	United States	10-Apr-97	21-Dec-99	Network Method and System for	
203.03	21000000						Delivering a Voice Mail	
••				:			Notification to a Subscriber	
							Using Cellular Phone	
		6449207	AT&T Wireless	· United States	29-Nov-99	09-Jul-02	Network for	
269.US.C1	09/448904	041050					Method and System for	
							Notification to a Subscriber	
							Using Cellular Phone	
				Linited States	15-May-02		Network	
269.US.C2	10/147408		AT&I WIREIESS	חווופח סופוכה			Method and System for	
							Delivering a Short-	
	200		AT&T Wireless	Canada	27-Oct-98		Message normication	_
270.CA	8001077			40000			Delivering a Short	
				Competing	25-Nov-98		Message Notification	Т
270.EPC	98122142.7		AT&I WIREIESS	TO T			Method and System for	
	<u> </u>	:			90,0014,00		Delivering a Smort Message Notification	
270 MX	9810043		AT&T Wireless	Mexico	20-1001-00		Method and System for	
	,				20 00	07-0-03	Delivering a Short Message Notification	
270.16	179851	6630883	AT&T Wireless	United States	05-Dec-20		Personal Information	
210:03					`,		Manager for Updating a	
					10.8624.07	· · · · · ·	Subscriber Profile	
272.BR	384268		AT&T Wireless	Brazil	in Column		Personal Information	
			4	7	19-Mav-97	12-Sep-00	Manager for opuduing e Telecommunication	$\dot{\neg}$
272.CA	2228139	2228139	AT&T Wireless	Carrana				
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Docket	Application	Patent	· O	Country	Application Date	Grant Date	Title	
Number	Number						Subscriber Profile	
				Furnean Patent			Personal Information Manager for Updating a Telecommunication	
272.EPC	97925647.6		AT&T Wireless	Convention	19-May-97		Subscriber Profile	$\top$
1-							Personal Information Manager for Updating a	
272.JP.D1	2002-258849		AT&T Wireless	Japan	04-Sep-02		Subscriber Profile	$\top$
					10.May.07	16-Nov-01	Personal Information Manager for Updating a Telecommunication Subscriber Profile	
272.MX	980830	205256	A I & I WITELESS	MEXICO	10-talah-01		Personal Information	
							Manager for Updating a Telecommunication	<b>.</b>
272.NO	19980460		AT&T Wireless	Norway	19-May-97		Subscriber Figure	I
				Patent			Manager for Updating a	<u>.</u>
720 CT	DCT/1 1007/08510		AT&T Wireless	Treaty	19-May-97	•	Subscriber Profile	
212.701	0100011001101						Personal Information	
							Manager for Updating a Telecommunication	
WT 272	86107431	92856	AT&T Wireless	Taiwan	30-May-97	09-Jun-98	Subscriber Profile	
2/2.17	10100						Personal Information	
						,	Telecommunication	 s
	86777	5903845	AT&T Wireless	United States	04~Jun-96	11-May-99	Subscriber Profile Method for Providing	
							Remote Emulation of the	<b>a</b>
					80 100 00	:	Exchange Exchange	 g
281.BR	9803891-5		AT&T Wireless	Diazii	26-20-60		Method for Providing	
·					•	: :	Remote Emulation of the Functionality of a Private	e e
	2240805	2249895	AT&T Wireless	Canada	09-Oct-98	26-Mar-02	Exchange	
ZO.:07	25,5000						Method for Providing	
				European Patent			Functionality of a Private	<b>a</b>
281.EPC	98308224.9		AT&T Wireless	Convention	09-Oct-98		Exchange	
					•.			

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	Title	Method for Providing	Functionality of a Private	Exchange	Method for Providing	Remote Emulation of the	Functionality of a Private	Exchange	Method for Providing	Remote Emulation of the	Functionality of a Filvate	Exchange	Method for Providing	Functionality of a Private	Exchange	A Method for Allowing a	Called Party to Allocate	Call Payment	Responsibility :	Called Party to Allocate	Call Payment	Responsibility	System for Providing	Power to a Wireless	System	System for Providing	System	System for Providing	System.	Method and System for	Providing Power to a	Wireless System	Method and System for	Mireless System	Method and System for	Providing Power to a	Wireless System
Grant				22-Nov-02				-				26-Feb-01			08-May-01				23-Apr-02			16-Apr-02				, .	01~Jan-02		45.Oct-02	20000		03-Jul-01	-				
20140011	Application			09-Oct-98			•	09-Oct-98				12-Oct-98			10-Oct-97				29-Oct-98			19-Nov-97			09-Oct-98		08-1-08			08-130-60		10-Oct-97			10-Apr-01		15-Jun-04
	Country	211181		Movino				Norway .	TOWNS A			Taiwan			Linited Ctates	Olilleo Olaros			Canada		•.	I latted Ctates	חווופח סומופט		Brazil		2	Carrada		Mexico		United States	200		United States		United States
		Owner			AT&T Wireless				Al&I Wireless			ATOT Wisologe	1			AT&T Wireless			AT&T Wireless	500		:	AT&T Wireless		ATET Mireloce	Alai Wildias		AT&T Wireless		AT&T Wireless		A TOT Missions	Al&i Wireless		AT&T Wireless		A TOT Mireless
	Patent	Number			211550			-					121508			6229885				0917677			6373931					2249911		210851			6256518				
	Application	Number			988391				19984742				87116913			08/948497				2252180			08/974394			9803890.7		2249911		988387			08/948777		09/828859		
	Docket	Number	•		81.MX				281.NO		•		281.TW	,		281.US		. 10		282.CA			282.US			283.BR		283.CA		283 MX	- CO.		283.US		283 11S CP1	200000	

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Title	Secure Equipment Automation Using a Personal Base Station	Secure Equipment Automation Using a Personal Base Station	Service Transfer to a Wireless Telephone	Service Transfer to a Wireless Telephone	Service Transfer to a Wireless Telephone	System and Method for Retrieving Messages From a Voice Message System	System and Method for Retrieving Messages From a Voice Message System	System and Method for Retrieving Messages from a Voice Message System	System and Method for Retrieving Messages From a Voice Message System	System and Method for Retrieving Messages From a Voice Message System	System and Method for Retrieving Messages From a Voice Message System	System and Method for Retrieving Messages From a Voice Message System	System and Method for Retrieving Messages From a Voice Message System	Method and Apparatus for Providing Partitioned Telecommunication Services	Method and Apparatus for Providing Partitioned Telecommunication Services
Grant Date	11-May-00	23-Feb-99	06-Mar-01	25-May-98	01-Dec-98		13-Feb-01	,				11-Aug-00	11-Jun-02		
Application Date	03-Oct-97	09-Oct-96	07-Apr-97	05-May-97	09-May-96	17-Dec-97	20-Nov-97	20-Nov-97	10-Dec-97	16-Dec-97	10-Dec-97	11-Dec-97	17-Dec-96	26-Jun-98	04-1-10-98
Country Name	Taiwan	United States	Canada	Taiwan	United States	Brazil	Canada	European Patent Convention	Japan	Mexico	Norway	Taiwan	United States	Brazil	c c c c c c c c c c c c c c c c c c c
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	sociosiM TeTA
Patent Number	110656	5875395	2202000	92547	5845207		2221660					114009	6405032		
Application Number	86114469	2088306	2202000	86105955	08/644027	1877348	2221660	97309357.8	9-339534	9710199	975816	86118705	08/766134	9802303	2220540
Docket Number	284.TW	284.US	285.CA	285.TW	285.US	286.BR	286.CA	286.EPC	286.JP	286.MX	286.NO	286.TW	286.US	287.BR	987 CA

ket         Application         Patent Number         Owner         Country Name         Application           ber         Number         Number         Number         Date           10-176865         AT&T Wireless         Convention         12-Jun-96           10-176865         AT&T Wireless         Japan         24-Jun-96           10-176865         AT&T Wireless         AT&T Wireless         AT&T Wireless           10-176865         111653         AT&T Wireless         Talwan         02-Jun-96           10-176866         AT&T Wireless         United States         26-Jun-97           10-176867         AT&T Wireless         United States         10-Jun-97           10-176868         AT&T Wireless         United States         10-Jun-97           10-176869         AT&T Wireless         Canada         24-Jun-97           10-176869         AT&T Wireless         Canada         24-Jun-97           10-176869         AT&T Wireless         Convention         15-Jul-97           10-176869         AT&T Wireless         Convention         15-Jul-97		•	•						
Number   N	100	Annlication	Patent		Country	Application	Grant	Title	
Property	Docker	Application 1	Number	Owner	Name	Date		Method and Apparatus for	
10-176895   AT&T Wireless   Convention   12-Jun-99   Fig.	Number	Number	Danie					Providing Partitioned	
10-176805   AT&T Wineless   Convention   12-Jun-99   Signo4671.5					Total Datent	•		Telecommunication	
10-176895   AT&T Wireless   Japan   24-Jun-98   Propertion   AT&T Wireless   Japan   24-Jun-98   Propertion   AT&T Wireless   Japan   AT&T Wireless   AT&T W	<u>·</u>					12_trm-98		Services	
10-176895   AT&T Wireless   Japan   24-Jun-98   Teless   Teless		200004674 6		AT&T Wireless	+			Method and Apparatus for	
10-176895   AT&TWireless   Japan   24-Jun-86   September   Septe	1	3030407 1.3			•	•		Providing Partitioned	
10-176895   AT&TWIreless   Japan   24-Jun-96   Para   Pa							٠	Telecommunication	
10-176895   AT&T Wireless   Japan   AT&T Wireless   Japan   AT&T Wireless   Japan   AT&T Wireless   Japan   AT&T Wireless								Services	
10-176855				AT&T Wireless	Japan	24-Jun-90		Method and Apparatus for	
985150   AT&T Wireless   Mexico   24-Jun-96   Sandala   Sandaron   Sandala   Sandaron   Sandaron	287.JP	10-1/6895						Devolution Partitioned	
985150   AT&T Wireless   Mexico   24-Jun-96   September   Septem									
Septisor   Septisor   AT&T Wireless   Mexico   24-Jun-96   Septisor   Properties   Septisor   AT&T Wireless   Tahwan   O2-Jun-96   O7-Jun-00   Septisor   AT&T Wireless   United States   10-Jan-02   Septisor   AT&T Wireless   AT&T Wireless   Brazil   14-Jul-97   Septisor   AT&T Wireless   AT&T Wirele								lelecommunication	
985150   AT&T Wireless   Wireless   Wireless   Talwan   O2-Jun-96   O7-Jun-00   S5					Movies	24-Jun-98		Services	
Property   Property		086150		AT&T Wireless	INIEXICO			Method and Apparatus for	
87108653   111653   AT&T Wireless   Talwan   O2-Jun-96   O7-Jun-00   Temporal Patent   O2-Jun-97   O	287.MX	001006						Providing Partitioned	
ST108653   111653   AT&I Wireless   Talwan   O2-Jun-96   O7-Jun-00   Ss								Telecommunication	
ST108653   111653   AT&T Wireless   Ialwan   Ialw						00 min 08	00-Jun-00	Services	
C1   10/041500	1	07108663	111653	AT&T Wireless	Taiwan	05-100-20		Method and Apparatus for	
C1   10/041500	287.1W	07 100033					•	Providing Partitioned	
OB/0862804   AT&T Wireless   United States   26-Jun-97   March   Mar		7						Telecommunication	
OBJ08B2804   AT&T Wireless   United States   10-Jan-02   S			•			20 1:10		Services	
10/041500   AT&T Wireless   United States   10-Jan-02   S	•	7000000		AT&T Wireless	United States	76-Jun-07		Method and Apparatus for	
10/041500	287.US	08/88/2004						Providing Partitioned	
10/041500						•		Telecommunication	
10/041500 AT&T Wireless United States 10-Jail-12 S 9703967 AT&T Wireless Brazil 14-Jul-97 A 2208601 AT&T Wireless Canada 24-Jun-97 Convention 15-Jul-97 AT&T Wireless Japan 15-Jul-97 13-Oct-03 AT&T Wireless Mexico 07-Jul-97 13-Oct-03						20 -1		Services	
9703967 9703967 9703967 2208601 2208601 AT&T Wireless Canada 24-Jun-97 P European Patent 97112096.9 AT&T Wireless Japan 15-Jul-97 AT&T Wireless Japan 15-Jul-97 13-Oct-03 13-Oct-03				AT&T Wireless	United States	10-Jan-02	-	System and Method for	
9703967 AT&T Wireless Brazil 14-Jul-97 A A A A A A A A A A A A A A A A A A A	287.US.C1	10/041500						Automatic Redistration	
9703967         AT&T Wireless         Brazil         14-Jul-97         A           2208601         2208601         AT&T Wireless         Canada         24-Jun-97         20-Mar-01         A           C         97112096.9         AT&T Wireless         Convention         15-Jul-97         B           C         975088         216890         AT&T Wireless         Japan         15-Jul-97         13-Oct-03					:	· ·		Notification for Over-the-Air	
9703967   AT&T Wireless   Brazil   14-Jul-97   State								Activation	
9703967         AT&T Wireless         Canada         24-Jun-97         20-Mar-01           2208601         AT&T Wireless         Canada         24-Jun-97         20-Mar-01           C         97112096.9         AT&T Wireless         Convention         15-Jul-97           AT&T Wireless         Japan         15-Jul-97         13-Oct-03           AT&T Wireless         Mexico         07-Jul-97         13-Oct-03				AT&T Wireless	Brazil	14-Jul-97		System and Method for	
C         97112096.9         AT&T Wireless         Canada         24-Jun-97         20-Mar-01           C         97112096.9         AT&T Wireless         Convention         15-Jul-97           C         975088         216890         AT&T Wireless         Japan         15-Jul-97         13-Oct-03	288.BR	9703967		2000			•	Automatic Registration	
2208601         AT&T Wireless         Canada         24-Jun-97         20-Mar-01           C         97112096.9         AT&T Wireless         Convention         15-Jul-97         15-Jul-97           C         975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03		-						Notification for Over-the-Air	
Convention					<i>:</i>		20-Mar-01	Activation	
2208601 2208601 European Patent European Patent 15-Jul-97 Convention 15-Jul-97 AT&T Wireless Japan 15-Jul-97 13-Oct-03			2208601	AT&T Wireless	Canada		ZO-INIGI O	System and Method for	
97112096.9         AT&T Wireless         European Patent Convention         15-Jul-97           188842/1997         AT&T Wireless         Japan         15-Jul-97           975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03	288.CA	ZZ08601	770007		:		_	Automatic Registration	
97112096.9 AT&T Wireless Convention 15-Jul-97 188842/1997 AT&T Wireless Japan 15-Jul-97 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03					totol of			Notification for Over-the-Air	
97112096.9 AT&T Wireless Convention 13-Jul-97 188842/1997 AT&T Wireless Japan 15-Jul-97 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03					Enropean Falan	`		Activation	
188842/1997 AT&T Wireless Japan 15-Jul-97 13-Oct-03 975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03				AT&T Wireless	Convention	18-Inc-ct		System and Method for	
188842/1997         AT&T Wireless         Japan         15-Jul-97           975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03	288.EPC	9/112096.9					÷	Automatic Registration	
188842/1997         AT&T Wireless         Japan         15-Jul-97           975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03	L							Notification for Over-the-Air	
188842/1997         AT&T Wireless         Japan         15-Jul-97         13-Oct-03           975088         216890         AT&T Wireless         Mexico         07-Jul-97         13-Oct-03						70 1.4 07		Activation	
975088 216890 AT&T Wireless Mexico 07-Jul-97 13-Oct-03	Ç	1888/2/1997		AT&T Wireless	Japan	16-Inn-ci		System and Method for	
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97,2088			216800	AT&T Wireless	Mexico	07-Jul-97	13-Oct-03	Acayanon	_
	288.MX	975088	410030						

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Title	System and Method for Automatic Registration Notification for Over-the-Air Activation	A Method and Apparatus for Over-the-Air Programming of Telecommunication Services	A Method and Apparatus for Over-the-Air Programming of Telecommunication Services	A Method and Apparatus for Over-the-Air Programming of Telecommunication Services	Method and Apparatus for Updating Service Information Stored in a Mobile Station					
	System and Automatic I Notification Activation	System and Automatic Notification Activation	System an Automatic Notification Activation	System an Automatic Notification Activation	System an Automatic Notification Activation	System an Automatic Notification Activation	A Method and Appa for Over-the-Air Programming of Telecommunication Services	A Method and Appa for Over-the-Air Programming of Telecommunication Services	A memor and Appa for Over-the-Air Programming of Telecommunication Services	Mobile Station
Grant Date		11-Dec-98	13-Feb-01	28-Aug-01				03-Jul-01	23~lun-04	
Application: Date					_	4	7	7.	7	60
Appli D	08-Jul-97	76-Jnf-60	15-Jul-96	30-Oct-00	29-Jun-01	16-Mar-04	03-Oct-97	19-Sep-97	07-Oct-97	16-Jan-98
Country Name	Nowav	Taiwan	United States	United States	United States	United States	Brazil	Canada	European Patent Convention	European Patent Convention
Owner	ATRI Wireless	AT&T Wireless	AT&T Wireless	TTA Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent			188800	0100039 0100039	0202721			2215821	836340	
Application		199/315/	CORCENSO	0000 1000	00/202/02	10/802492	QZDERZ	2215821	97117320.8	2002072 6
Docket		ON.382	31 80C	č		288 IS C1(2)	280 BB	289.CA	289.EPC	200

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Title	Mobile Communication	System and method to Receiving Intelligent	Roaming Information	for Over-the-Air	Programming of	Telecommunication	Services	A Method and Apparatus	for Over-the-Air	Telecommunication	Services	A Method and Apparatus	Programming of	Telecommunication	Services	A Method and Apparatus	Tor Over-the-All	Telecommunication	Services	A Method and Apparatus	for Over-the-Air	Frogramming of	Services	A Method and Apparatus	for Over-the-Air	Programming of		A Method and Apparatus	for Over-the-Air	Programming of	Telecommunication	Services Apparatus for	Method and Apparatus to   Testing Cellular Services in	a First Location From a	Second Location remote
Grant Date											07-Aug-02								02-May-00				10.000.00	00-dac-61				Z4-Sep-02			*.				
Application Date			07-Oct-97				08-0ct-97		•		08-Oct-97				10.Sep.97	20000			08.Oct.07	2000		-		08-Oct-96		:	.*	17-Dec-98				08-Aug-02			
Country	Name	European Patent			-			Japan				Mexico				Norway		•		laiwan	·			United States				United States				1 Inited States			
	Owner			AT&I WIREIESS				AT&T Wireless				AT&T Wireless			•	AT&T Wireless				AT&T Wireless				AT&T Wireless		<u> </u>		AT&T Wireless				4 T 0 T 14 (fac) 000	AIGI WIEGESS		
Patent	Number											209518					. ,			110299			· .	6122503	012230			.,	6450843						
Application	Number			3026871.8				775308/1997				977676				19974517				86114585	200	·			20013/8			,	09/213416				10/214315	,/	
Docket	Nimber			89.EPC.D2 3					289.75			AN ORC				. ON oac	203:100		•	. ME 000	709.1W				289.US				289.US.C1		·. ·		289.US.C1(1)		

Docko	Application	Datont		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
							Method and Apparatus for Testing Cellular Services in
							a First Location From a
, acc	2240667	9340667	ATRT Mireless	وكومون	20.004.97	11-Sep-01	Second Location Remote From the First Location
CO.062	77 10001	77 10001	אוומומא אוומומא	Dog Do	5 55 57	200	Method and Apparatus for
	•		•				Testing Cellular Services in
							a First Location From a
				European Patent			Second Location Remote
296.EPC	97117941.1	·	AT&T Wireless	Convention	16-Oct-97		From the First Location
							Method and Apparatus for
	٠		•				a First I ocation From a
							Second Location Remote
296.JP	9-286313		AT&T Wireless	Japan	20-Oct-97		From the First Location
							Method and Apparatus for
							Testing Cellular Services in
	-		•			•	a First Location From a
							Second Location Remote
296.MX	978010	212232	AT&T Wireless	Mexico	17-Oct-97	18-Dec-02	From the First Location
							Method and Apparatus for
							Testing Cellular Services in
			•				a First Location From a
014 900			ATOTIMISSION	November	13_001.07		From the First I ocation
CNOC7	199/4/23		AI & I WIREIESS	INCIWAY	19-00-61		FIGURE A SECTION
							Method and Apparatus for Teeting Cellular Sepulces in
							a Elset I ocation From a
							Second Location Remote
WT 96C	86115142	103067	AT&T Wireless	Taiwan	15-Oct-97	10-Sep-99	From the First Location
							Method and Apparatus for
	•	<del></del>					Testing Cellular Services in
					•		a First Location From a
							Second Location Remote
296.US	08/734707	5875398	AT&T Wireless	United States	21-Oct-96	23-Feb-99	From the First Location
							Improved Generation of
297.JP	517588/1998	٠	AT&T Wireless	Japan	29-Sep-97		Encryption Key
				,			Improved Generation of
297.TW	86114466	103186	AT&T Wireless	Lawan	03-Oct-97	13-Sep-99	Encryption Key
S0.792	08/731105	5930362	AT&T Wireless	United States	09-Oct-96	27-Jul-99	Encryption Key
ALT BOC	96444474	147601	AT&T Wireless	Taiwan	03-Oct-97	23-Apr-02	Mobile Network
730.1 W		14/031	Alai Viidida				
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		tuoto0		Country	Application	Grant	Title
Docket	Application	Number	Owner	Name	Date	Date	Geographic Address
Mulliper					- 3.1		Mobile Network
							Geographic Address
			AT&T Wireless	United States	08-Oct-96	31-Aug-99	Registration of Mobile
98.US	1801591	5946615	3000				Packet Data Terminals
			AT&T Wireless	Canada	06-May-97	23-Sep-03	After Disaster Registration of Mobile
299.CA	2257423	2257423	1000				Packet Data Terminals
			AT&T Wireless	Canada	06-May-97		After Disaster Registration of Mobile
299.CA.D1	2404922			Cappap Datent			Packet Data Terminals
			AT&T Wireless	Convention	06-May-97		After Disaster Registration of Mobile
299.EPC	97922676.8				:		Packet Data Terminals
			AT&T Wireless	Japan	06-May-97		After Disaster Registration of Mobile
299.JP	501587/1998		in to				Packet Data Terminals
	٠			Mexico	06-May-97	06-May-97	After Disaster
299.MX	9810332	204997	AT&! Wireless	2000			Packet Data Terminals
				Towns	14-May-97	16-Aug-99	After Disaster
299.TW	86106439	102438	AT&T Wireless	Idiwali		. ·	Registration of Mound Packet Data Terminals
				11nited States	10-Jun-96	05-Dec-00	After Disaster
299.US	1992978	6157633	AT&T WIREIESS	2000			Packet Data Terminals
			0000000	United States	09-Apr-99	03-Aug-04	After Disaster
299.US.D1	09/289362	6771634	A I & I WII BIGSS				Dynamic Negotiation of
			AT&T Wireless	Brazil	15-Jan-98		Method and Apparatus for
300.BR	9800328-3						Dynamic Negotiation of
	2227086	2227086	AT&T Wireless	Canada	15-Jan-98	19-Mar-02	Method and Apparatus for
300.00				Mexico	19-Jan-98	23-Jul-04	Protocols  Attitod and Apparatus for
300.MX	980550	221663	Al&i Wireless		-		Dynamic Negotiation of
		707707	AT&T Wireless	Taiwan	21-Jan-98	17-Oct-01	Protocols  Dynamic Protocol
300.TW	87100792	O to I - INI		Linited States	21-Jan-97	26-Sep-00	Negotiation System
300.US	-290885	6125122	AT&T Wireless	Onlied States			

Docket	Application	Patent	Own	Country	Application	Grant	Titt	
						2000	Method and Apparatus for	aratus for
300.US.C1	09/634573	6445716	AT&T Wireless	United States	08-Aug-00	03-Sep-02	Dynamic Negotiation of Protocols	stion of
300.US.C1(1)	-328443		AT&T Wireless	United States	18-hil-02		Method and Apparatus for Dynamic Negotiation of Protocols	aratus for stion of
301.BR	1426882		AT&T Wireless	Brazil	24-Oct-97		A Method and Apparatus for Message Transmission	oparatus nsmission
301.CA	2218211	2218211	AT&T Wireless	Canada	14-Oct-97	06-Feb-01	A Method and Apparatus for Message Transmission Verification	oparatus nsmission
301.EPC	97118527.7		AT&T Wireless	European Patent Convention	24-Oct-97	·	A Method and Apparatus for Message Transmission Verification	oparatus nsmission
301.JP	9-290726		AT&T Wireless	Japan	23-Oct-97		A Method and Apparatus for Message Transmission Verification	oparatus nsmission
301.MX	978066	206521	AT&T Wireless	Mexico	20-Oct-97	08-Feb-02	A Method and Apparatus for Message Transmission Verification	oparatus nsmission
301.NO	19974771		AT&T Wireless	Norway	15-Oct-97		A Method and Apparatus for Message Transmission Verification	oparatus nsmission
301.TW	86115452	108524	AT&T Wireless	Taiwan	20-Oct-97	09-Mar-00	A Method and Apparatus for Message Transmission Verification	oparatus nsmission
301.US	08/740277	5940740	AT&T Wireless	United States	25-Oct-96	17-Aug-99	A Method and Apparatus for Message Transmission Verification	paratus nsmission
301.US.C1	09/215557	6219542	AT&T Wireless	United States	18-Dec-98	17-Apr-01	A Method and Apparatus for Message Transmission Verification	paratus nsmission
301.US.C1(1)	09/535340		AT&T Wireless	United States	24-Mar-00		Method and Apparatus for Message Transmission Verification	aratus for nission
302.BR	9710456-6		AT&T Wireless	Brazil	24-Jun-97		Method for Categorization of Multiple Providers in a Wireless Communications Service Environment	yorization lers in a nications
302.CA	2259238	2259238	AT&T Wireless	Canada	24-Jun-97	25-Mar-03	Method for Categorization of Multiple Providers in a Wireless Communications Service Environment	jorization lers in a nications

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	Title	Method for Categorization	of Multiple Providers in a	Wireless Communications Service Environment	Method for Categorization	of Multiple Providers in a	Wireless Communications	Service Environment	Method for Categorization	of Multiple Providers in a	Wireless Communications	Service Environment	Method for Categorization	of Multiple Providers in a wireless Communications	Service Environment	Method for Categorization	of Mulitiple Providers in a	Villeless Collinging	Mathod for Categorization	of Multiple Providers in a	Wireless Communications	Service Environment	Method for Categorization	of Multiple Providers in a	Wireless Communications	Service Environment	Method for Categorization	Wireless Comminications	Service Environment	Method of Intelligent	Roaming Using Network	Information	Method of Intelligent	Roaming Using Network	Information	Method of Intelligent	Roaming Using Network	Method of Intelligent	Roaming Using Network	Information	
Cront	Date														11-Mar-99				Z/-Feb-01			23-Apr-02										30-Mar-04			·			-			
1 2 3 7 1	Application Date				24-Jun-97			74. hm-97	2000		. •	24-Jun-97			24. hin. 97	10-1100-1-7		•	28-Jun-96		• •	14-lun-99				19-Mar-02			10 10 10	77-Sep-04		12-Jun-98			12-Jun-98			12-Jun-98		12-Jun-98	
	Country	Maille		atent	Convention		*		Japan			Maxico				laiwan			United States			Linited Ctates	Offiled States			United States		•		United States		Change	Callana	٠	Canada		European Patent	Convention		Mexico	
		Owner	·	,	AT&T Wireless (		<u>-</u>	•	AT&T Wireless	•	•		Alat Wileless			AT&T Wireless			AT&T Wireless				AT&T Wireless			A TO T Missions	Alai wiidas			AT&T Wireless			AT&T Wireless		ATPTMireless	Alai Wildiess		AT&T Wireless		AT&T Wireless	
	Patent	Number								. :						97738	•		6406633	0180007			6377787		*		-3		•	€			2294432								
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	Docket	Nimber				302.EPC			di cue				302.MX			302.TW		•		302.US			302.US.C1				302.US.C2				302.03.03	•	303.CA		:	303.CA.D1		700	303.670	<b>&gt;71</b> CCC	JU25.IVI

Docket	Application	Patent		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
303.TW	8710178	110131	AT&T Wireless	Taiwan	24-Jun-98	26-Apr-00	Method of Intelligent Roaming Using Network Information
303.US	08/883111	6223042	AT&T Wireless	United States	26-Jun-97	24-Apr-01	Method of Intelligent Roaming Using Network Information
306.BR	9800525-1		AT&T Wireless	Brazil	30-Jan-98		Method and Apparatus for Serving Cell Code Assignment
306.CA	2227138	2227138	AT&T Wireless	Canada	15-Jan-98	16-Sep-03	Method and Apparatus for Serving Cell Code Assignment
306.MX	980722		AT&T Wireless	Mexico	26-Jan-98		Method and Apparatus for Serving Cell Code Assignment
306.TW	87100967	111208	AT&T Wireless	Taiwan	23-Mar-98	29-May-00	Method and Apparatus for Serving Cell Gode Assignment
306.US	1472506	6144851	AT&T Wireless	United States	31-Jan-97	07-Nov-00	Method and Apparatus for Serving Cell Gode Assignment
307.BR	1892355	•	AT&T Wireless	Brazil	18-Dec-97	, y	Method of Mutual Authentication for Secure Wireless Service Provision
307.CA	2221665	2221665	AT&T Wireless	Canada	20-Nov-97	07-Jan-03	Method of Mutual Authentication for Secure Wireless Service Provision
307.MX	9710347	193809	AT&T Wireless	Mexico	18-Dec-97	22-Oct-99	Method of Mutual Authentication for Secure Wireless Service Provision
307.TW	86119522	110272	AT&T Wireless	Taiwan	22-Dec-97	01-May-00	Method of Mutual Authentication for Secure Wireless Service Provision
307.US	08/777341	5875394	AT&T Wireless	United States	27-Dec-96	23-Feb-99	Method of Mutual Authentication for Secure Wireless Service Provision
308.BR	9706413-0		AT&T Wireless	Brazil	18-Dec-97		Method for Controlling Channel Re-Selection
308.CA	2221820	2221820	AT&T Wireless	Canada	20-Nov-97	30-Jul-02	Method for Controlling Channel Re-Selection
308.MX	9710341	199915	AT&T Wireless	Mexico	18-Dec-97	30-Nov-00	Method for Controlling Channel Re-Selection
308.TW	86119184	125235	AT&T Wireless	Taiwan	18-Dec-97	08-May-01	Method for Controlling Channel Re-Selection

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Title	Method for Controlling	Method for Controlling	Channel Re-Selection	Channel Re-Selection	From a Selected Control	Channel to an Alternative	Control Channel	Method for Controlling	Channel Re-Selection	Method and Apparatus to	Network of a Requested	Communication From a	Second Network	Method and Apparatus for	Alerting a Station in One	Network of a Requested	Communication From a	Second Network	Method and Apparatus for	Alerting a Station in One	Network of a Nequested	Second Network	Method and Apparatus for	Alerting a Station in One	Network of a Requested	Communication From a	Second Network	Method and Apparatus ion	Network of a Requested	- Communication From a	Second Network	Method and Apparatus for	Alerting a Station in One	Communication From a	Second Network	
Grant		30-NOV-33	31-Dec-02			•												18-Nov-03											٠.	_	07-Nov-03					. ,
Application	Date	24-Dec-96	07-May-99				30-Jul-02		20-Aug-04	•			18-Dec-97					20-Nov-97				20 Mar. 07	76-A0AI-07				19-Dec-97				18-Dec-97				17-Dec-97	
Country	$\dagger$	United States	United States				United States		United States			-	Brazil	Diazii				Canada		•	. !	European Patent	Convention				Japan				Mexico	2000			Novem	Towns.
	Owner	AT&T Wireless	AT&T Wireless				AT&T Wireless		AT&T Wireless					AT&I WIREIESS				AT&T Wireless					AT&T Wireless				AT&T Wireless				ATOT Mississippe	AIGI WIEGOS		· ·	-	Al&i Wireless
Patent	Number	5995834	8501051			-							•					2224 DE4	#C01777		•				• .						1	217407				
Application	Number	08/772829		09/306/60				10/200963	- Polica	manen		٠,		1892840					2221854				97309352.9					9-350412			•	9710338		•:		19975936
Docket	Number	308.US		308.US.C1				308.US.C1(1)	100000000000000000000000000000000000000	1		•		312.BR					312.CA				342 EDC	312.51			!	312.JP				312.MX				312.NO

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Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title	
		· ·	•				Method and Apparatus for Alerting a Station in One	5
							Network of a Requested	
312.TW	86119517	104929	AT&T Wireless	Taiwan	22-Dec-07	000	Communication From a	
						66-090-10	Method and Apparatus for	
		-		•			Alerting a Station in One	
							Network of a Requested	-
312.US	08/777336	6230009	AT&T Wireless	United States	127-Dec-96	08-Mav-01	Second Network	<u>·</u>
							Method and Apparatus for	\ <u>_</u>
							Alerting a Station in One	•
							Network of a Requested	
312.US.C1	09/740181	6459897	AT&T Wireless	United States	18-Dec-00	01-0-10	Communication From a	
						20-00-10	Method and Apparatus for	Τ,
							Alerting a Station in One	
							Network of a Requested	
240 01 07							Communication From a	-
312.US.C1(1)	10/241432		AT&T Wireless	United States	12-Sep-02	•	Second Network	
313 BP	1802450			:			Method of Wireless	
10.01	1030430		A I & I Wireless	Brazil	18-Dec-97		Retrieval of Information	
313.CA	2221666		AT&T Wireless	Canada	20-Nov-07		Method of Wireless	
			2000	20000	20-100-01		Remeval of Information	T
313.EPC	97121958.9		AT&T Wireless	European Patent	42 Dec 07		Method of Wireless	
			2000	Contraction	15-080-31		Retrieval of Information	Ţ
313.JP	9-351020		AT&T Wireless	Japan	19-Dec-97		Metrico of Wireless Retrieval of Information	
313 MX	0710340						Method of Wireless	Γ
	0.10210		Alal Wireless	MEXICO	17-080-97		Retrieval of Information	T
313.NO	19975935		AT&T Wireless	Norway	17-Dec-07		Method of Wireless	
							Method of Wireless	T
313.TW	86119180	105649	AT&T Wireless	Taiwan	18-Dec-97	17-Dec-99	Retrieval of Information	
313116	000777000						Method of Wireless	Γ
013:00	00/1/303	0483430	A I & I Wireless	United States	24-Dec-96	10-Dec-02	Retrieval of Information	1
313.US.R1	10/419098		AT&T Wireless	I Inited States			Method of Wireless	
			Aldi Wildias	Olilled Sigles	03-00H-03		Retrieval of Information	T
							Memod and Apparatus for	
318.BR	1767500		AT&T Wireless	Brazil	03-Dec-97		Processing	
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						Grant		
4040	Application	Patent		Country	Application	Date	Title	
Nimber	Number	Number	Owner	Маше	280		Method and Apparatus for	
					10-vov-97	01-Jan-02	Processing	
000	7020202	2220707	AT&T Wireless	Canada			Method and Apparatus to	
318.00				European Patent	10 May 07		Processing	•
249 500	97309093.9		AT&T Wireless	Convention	16-NON-21		Method and Apparatus for	
310.51					. 20 00		Processing	
318.IP	2306751		AT&T Wireless	Japan	ns-nec-ar		Method and Apparatus for	
					02-Dec-97	26-Sep-01	Processing	
318.MX	979392	204379	AT&T Wireless	-IMEXICO			Method and Apparatus for   Data Network Call	
*			000	vewor	04-Dec-97		Processing Processing for	
318.NO	19975612		Al&i Wireless				Data Network Call	
			ATRIWIRE	Taiwan	03-Dec-97	04-Mar-02	Processing Method and Apparatus for	
318.TW	86118162	143991					Data Network Call	
			ATOTAlirologe	United States	09-Dec-96	12-Sep-00	Processing	
318.US	08/762550	6118778	Alai Wieiess				Data Network Call	
			and collection	United States	30-Nov-99	17-Aug-04	Processing Processing	_
318.US.C1	09/451401	6778527	Alai Wildias				Stamping a Message	
							Based on a Recipient	
					27-Mav-98		Location	_
332 BB	9801486-2		AT&T Wireless	Drazii			A Method for Time-	
				:			Based on a Recipient	
			ATRT Wireless	Canada	27-Apr-98		Location Method for Time-Stamping	$\overline{}$
332.CA	2235979		5	Doton Doton			a Message Based on a	·
			paolosia tota	Convention	22-May-98		Recipient Location	_
332.EPC	98304082.5		AIRI WIEGGS				Stamping a Message	
	- <u>-</u>	,					Based on a Reciplent	
	٠.			denet	27-May-98		Location	٦.
332.JP	10-145288		AT&T Wireless	Japan			Method for Lime-Stampung	
		*	200101111	Mexico	28-May-98	04-Mar-04	Recipient Location	$\overline{\Box}$
332.MX	984246	219273	Alai Wildiess		ř			

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant	Title
332.NO	19982385	316993	AT&T Wireless	·		20.51	= 10 10
332.TW	87108312	111946	AT&T Wireless	Taiwan	28 Mar. 00	19-00-04	Method for Time-Stamping a Message Based on a
332.US	08/868401	6239719	AT&T Wireless	United States	03-ltm-97	20-May 01	Method for Time-Stamping a Message Based on a
332.US.C1	09/825894		AT&T Wireless	United States	05-Apr-01	O-Kealved.	Method for Time-Stamping a Message Based on a Recipient I position
333.BR	9806495-9		AT&T Wireless	Brazil	28-May-98		Method and System for Providing Data Communication With a Mobile Station
333.CA	2236231	2236231	AT&T Wireless	Canada	30-Apr-98	30-Oct-01	Method and System for Providing Data Communication With a Mobile Station
333.DE	98304081.7	69817086.5	AT&T Wireless	Germany	22-May-98	13-Aug-03	Method and System for Providing Data Communication With a Mobile Station
333.EPC	98304081,7	883313	AT&T Wireless	European Patent Convention	22-May-98	13-Aug-03	Method and System for Providing Data Communication With a Mobile Station
333.FI	98304081.7	. 883313	AT&T Wireless	Finland	22-May-98	13-Aug-03	Method and System for Providing Data Communication With a Mobile Station
333.FR	98304081.7	883313	AT&T Wireless	France	22-May-98	13-Aug-03	Method and System for Providing Data Communication With a Mobile Station
333.GB	98304081.7	883313	AT&T Wireless	Great Britain	22-May-98	13-Aug-03	Method and System for Providing Data Communication With a Mobile Station
333.JP	154083/1998		AT&T Wireless	Japan	03-Jun-98		Method and System for Providing Data Communication With a

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Application	Patent		Country	Application	Grant Date	Title	
Number	Number	Owner	ма <b>ш</b> е			Mobile Station	
٠.	•					Method and System for	
						Providing Data	
				11. ltn-98	08-Jan-03	Mobile Station	
984353	212436	1		22		Method and System for	
				26. May, 08		Providing Data Communication With a Mobile Station	• •
19982384		AT&T Wireless		20-181-02		Method and System for	
						Providing Data Communication With a	
	883313	AT&T Wireless	Sweden .	22-May-98	13-Aug-03	Mobile Station Method and System for	
98304001.7						Providing Data Communication With a	
·	3	AT9T Mirelace	Taiwan	28-May-98	17-Apr-01	Mobile Station	
87108311	123686	Algi wiieless				Method and System for	
					:	Communication With a	
	6393014	AT&T Wireless	United States	03-Jun-97	21-May-02	Method and System for	_
06/000300	10000				.,	Providing Data	
					*	Communication With a	
10/120548		AT&T Wireless	United States	12-Apr-02		Method and System for	
		•				Communication With a	
mailed		AT&T Wireless	United States	10-Sep-04		System and Method for	· -
,	,	ATOT Witoloce	Brazil	31-Mar-98		Processing Oropped Calls	
9801221-5		Total Wilsologe	Canada	12-Mar-98	30-Oct-01	System and Method for Processing Dropped Calls	
2231938	2231938	AIQI WIEGGS	European Patent		· · · · · ·	System and Method for Processing Dropped Calls	
98302011.6		AT&T Wireless	Convention	18-Mar-80		System and Method for	
96520/1998		AT&T Wireless	Japan	09-Apr-98		Processing Uropped Calls	1
		AT&T Wireless	Mexico	02-Apr-98		Processing Dropped Calls	7
982578							
	984353 19982384 98304081.7 87108311 87108311 10/120548 10/120548 2231938 9801221-5 2231938 98302011.6 96520/1998	350 350 350 338 338 338 338 378	84. AT&T Wireless 84. AT&T Wireless 81.7 883313 AT&T Wireless 111 123686 AT&T Wireless 1350 6393014 AT&T Wireless 1350 6393014 AT&T Wireless 1350 AT&T Wireless 1350 AT&T Wireless 1350 AT&T Wireless 1350 AT&T Wireless 136 2231938 AT&T Wireless 1378 AT&T Wireless 138 2231938 AT&T Wireless 138 AT&T Wireless 138 AT&T Wireless 138 AT&T Wireless 138 AT&T Wireless	84         AT&T Wireless         Mexico           81.7         883313         AT&T Wireless         Sweden           81.7         883313         AT&T Wireless         Sweden           81.7         883313         AT&T Wireless         Sweden           81.7         883313         AT&T Wireless         Talwan           81.1         AT&T Wireless         United States           82         AT&T Wireless         United States           82         AT&T Wireless         Brazil           2011.6         AT&T Wireless         Convention           001998         AT&T Wireless         Japan           78         AT&T Wireless         Mexico	84         AT&T Wireless         Mexico         01-           84         AT&T Wireless         Norway         26           81.7         883313         AT&T Wireless         Sweden         22           111         123686         AT&T Wireless         Taiwan         22           350         6393014         AT&T Wireless         United States         0           350         6393014         AT&T Wireless         United States         1           36         AT&T Wireless         United States         1           37         AT&T Wireless         Canada           2011.6         AT&T Wireless         Convention           2011.6         AT&T Wireless         Japan           378         2231938         AT&T Wireless           2011.6         AT&T Wireless         Japan           378         AT&T Wireless         Japan           378         AT&T Wireless         Japan	212436 AT&T Wireless Mexico 01-Jun-98 08  AT&T Wireless Norway 28-May-98 11  AT&T Wireless Sweden 22-May-98 11  12366 AT&T Wireless Taiwan 28-May-98 11  350 6393014 AT&T Wireless United States 12-Apr-02  AT&T Wireless United States 12-Apr-02  AT&T Wireless United States 12-Apr-02  AT&T Wireless Canada 12-Mar-98  AT&T Wireless Canada 12-Mar-98  AT&T Wireless Canada 12-Mar-98  AT&T Wireless Canada 09-Apr-98  AT&T Wireless Japan 09-Apr-98  AT&T Wireless Japan 09-Apr-98	212436 AT&T Wireless Mexico 01-Jun-96 08-Jan-03 Worker AT&T Wireless Norway 25-May-96 Worker Co-05 May 350 AT&T Wireless Taiwan 22-May-96 13-Aug-03 Worker AT&T Wireless Taiwan 28-May-96 17-Apr-01 May AT&T Wireless United States 03-Jun-97 21-May-02 N AT&T Wireless Connention 12-Mar-96 17-Apr-01 May AT&T Wireless Connention 13-Mar-96 12-May-02 N AT&T Wireless Convention 13-Mar-96 12-May-05 N AT&T Wireless Convention 13-Mar-96 130-Oci-01 N AT&T Wireless Convention 13-Mar-96 130-Oci-01 N AT&T Wireless Mexico 102-Apr-98

Application Patent Number Number	Pat Nur	ent iber	Owner	Country Name	Application Date	Grant Date	Tite
19981596	•		AT&T Wireless	Norway	07-Apr-98		System and Method for Processing Dropped Calls
87105092 111939	111939		AT&T Wireless	Taiwan	03-Apr-98	13-Jun-00	System and Method for Processing Dropped Calls
08/902373	6344303		ATPT Mississes	- Cototo	70 P4 00		Apparatus for Providing Enhanced Functionality to
							Method for Designing Wireless Communications
08/996764 6477376	6477376		AT&T Wireless	United States	23-Dec-97	05-Nov-02	Parameters
	40						A Method and System for Optimizing Performance of a Mobile Communications
08/996486 6603966	9966099		AT&T Wireless	United States	23-Dec-97	05-Aug-03	System
							A Method and System for Optimizing Performance of Mobile Communications
10/307668			AT&T Wireless	United States	02-Dec-02		System
08/838582 6014559	6014559		AT&T Wireless	United States	10-Apr-97	-11-Jan-00	Method and System for Delivering a Voice Mail Notification to a Private Base Station Using Cellular Phone Network
00000							Method and Apparatus for Voice Mail Sharing Between Wired and
9801756-0			AT&T Wireless	Brazil	02-Jun-98		Method for Locating a Mobile Station
2235982 2235982	2235982		AT&T Wireless	Canada	27-Apr-98	29-Jun-04	Method for Locating a Mobile Station
984355 207198	207198		AT&T Wireless	Mexico	01-Jun-98	14-Mar-02	A Method for Locating a Mobile Station
87108313 116657	116657		AT&T Wireless	Taiwan	28-May-98	24-Oct-00	A Method for Locating a Mobile Station
08/868402 6167274	6167274		AT&T Wireless	United States	03-Jun-97	26-Dec-00	Method for Locating a Mobile Station
2275186 2275186	2275186		AT&T Wireless	Canada	14-Oct-98	16-Dec-03	Customized On-Line User Guide
98953442.5	7		AT&T Wireless	European Patent Convention	14-Oct-98		Customized On-Line User Guide
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	10.00	Patent		Country	Application	Grant Date	Title
Docket	Application	Number	Owner	Name			Customized On-Line User
+-	2228		AT&T Wireless	Japan	14-Oct-98		
	3220				94.00.44		Customized On-Line User Guide
	995662		AT&T Wireless	Mexico		ž	Tell and Land postmeters
		0,000	AT&T Wireless	United States	22-Oct-97	04-Jun-02	Guide Customized On-Line User
	08/956130	6795702	AT&T Wireless	United States	26-Mar-02	21-Sep-04	A Method and Apparatus
353.US.C1	10/1062/3	2272054	AT&T Wireless	Canada	20-Oct-98	23-Sep-03	a Dedicated Processor Apparatus for Filtering
	1007177	6003410	AT&T Wireless	United States	23-Oct-97	18-Jul-00	Processor Method and Apparatus for
	08/956993	0117500		1 Inited States	26-May-00	11-Nov-03	Filtering Packets Using a Dedicated Processor
356.US.C1	09/580204	6647418	AT&I Wireless				Filtering Packets Using a
256 HS C3(1)	10/673439		AT&T Wireless	United States	30-Sep-03		User Assisted Wireless
			AT&T Wireless	Brazil	10-Jun-98	  -  -	Fraud Detection
357.BR	9801993		AT&T Wireless	European Patent Convention	21-May-98		Fraud Detection User Assisted Wireless
357.EPC	98304042.9		ATRI Mireless	Japan	08-Jun-98		Fraud Detection
357.JP	10-158792		1818		08-1110-98		User Assisted Willers
357.MX	984569		AT&T Wireless	Mexico			User Assisted Wireless Fraud Detection
357.NO	19982603		AT&T Wireless	Norway	05-unc-c0		User Assisted Wireless
357 TW	87109176	110725	AT&T Wireless	Taiwan	09-Jun-98	12-May-00	System and Method for Processing Dropped Calls
365.BR	9801220-7		AT&T Wireless	Brazil	31-Mar-98	10-Nov-01	System and Method for Processing Dropped Calls
365.CA	2231932	2231932	AT&T Wireless	Canada Fumpean Patent	12-Mar-90		System and Method for
365 FPC	98302012.4		AT&T Wireless	Convention	18-Mar-98		Processing of processing of the processing of th

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	<b>Grant</b> Date	Title
365.JP	96519/1998		AT&T Wireless	Japan	09-Apr-98		System and Method for Processing Dropped Calls
365.MX	982579		AT&T Wireless	Mexico	02-Apr-98	•	System and Method for Processing Dropped Calls
365.NO	19981595		AT&T Wireless	Norway	07-Apr-98		System and Method for Processing Dropped Calls
365.SE	98302012.4	Ų	AT&T Wireless	Sweden	18-Mar-98		System and Method for Processing Dropped Calls
365.TW	87105091	108902	AT&T Wireless	Taiwan	03-Apr-98	27-Mar-00	System and Method for Processing Dropped Calls
365.US	08/838659	5995830	AT&T Wireless	United States	09-Apr-97	30-Nov-99	System and Method for Processing Dropped Calls
373.US	1710280	6201797	AT&T Wireless	United States	12-Dec-97	13-Mar-01	High Bandwidth Delivery and Internet Access for Airborne Passengers
373.US.R1	10/389010		AT&T Wireless	United States	13-Mar-03		High Bandwidth Delivery and Internet Access for Airborne Passengers
391.US	866601		AT&T Wireless	United States	17-Aug-98		A Method and Apparatus for Determining Billing Rates for Communication Services
392.US	850164	6188897	AT&T Wireless	United States	17-Aug-98	13-Feb-01	Mobile Station Roaming in a Multiple Service Provider Area
392.US.C1	2132166	6470182	AT&T Wireless	United States	15-Sep-00	22-Oct-02	Mobile Station Roaming in a Multiple Service Provider Area
394.US		6704565	AT&T Wireless	United States	23-Dec-97	09-Mar-04	Method and Apparatus for Providing a Hold Termination Message Service in a Communications Network
402.CA	2254393	2254393	AT&T Wireless	Canada	24-Nov-98	26-Feb-02	Method and Apparatus for Providing Calling Number Identification Alias in a Communications System
402.DE	98123490.9	69800769	AT&T Wireless	Germany	14-Dec-98	09-May-01	Method and Apparatus for Providing Calling Number Identification Alias in a Communications System
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DOCAGE.	Mimbor	Number	Owner	Name	Date		Method and Apparatus for	
Number	NUMBER						Providing Calling Number	
,				Eumona Patent			Identification Alias In a	
					14-Dec-98	09-May-01	Communications System	
	98123490.9	926910	AT&T Wireless	†			Method and Apparatus for	
טליבר ט	2000			-			Providing Calling Number	
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		٠			44_Dac_98	09-May-01	Communications System	
92 00	98123490.9	926910	AT&T Wireless	rrance	2000-1		Method and Apparatus for	
102.Th							Providing Calling Number	
							Identification Alias in a	
				Cictical tour	14.Dec.98	09-May-01	Communications System	
100 CB	98123490.9	926910	AT&T Wireless	Great Diliam	200.00		Method and Apparatus for	
402.00							Providing Calling Number	
							Identification Alias in a	
			ATOT Mirelace	Mexico	14-Dec-98	31-Jul-02	Communications System	
402.MX	9810631	209390	AIGH WIERESS	2000		. •	Method and Apparatus for	
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	·					00-Dec-03	Communications System	
	40,4005.24	6652006	AT&T Wireless	United States	02-301-02	22.50	Methods and Systems for	
402:US.C1	10,100321	20000			•		Managing the Routing of	
					. •		Packets Over a Hybrid	
		•		chose	10-Dec-98		Network	
405 CA	2255475		AT&T Wireless	Canada	25.25		Methods and Systems for	
10.CO							Managing the Routing of	
				Furnham Patent			Packets Over a Hybrid	
				Contraction	17-Dec-98		Network	
ANS EDC.	98124229		AT&T Wireless	Colliveringi			Methods and Systems for	
*03.Et O			•				Managing the Routing of	
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405 MX	9810839		AT&I WIREIESS	MCAICA			Methods and Systems for	
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			AT&T Wireless	United States	19-Dec-97		Methods and Systems for	
405.US	08/994831		20001111				Menious and Openion of	
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			AT&T Wireless	United States	14-Dec-01		Section 1	
405.US.C1	10/01/042		AT&T Wireless	United States	21-Nov-01	18-Nov-03	Aircraft Cockpit Telephoris	
408.US.C1	1918499	/680599	BIC				A Method and Apparatus	
27.77	2272056	2272056	AT&T Wireless	Canada	20-Oct-98	23-Sep-03	for Updating Address Lists	_
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Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Tife
						·	for a Packet Filter Processor
411.US	08/956990	6158008	AT&T Wireless	United States	23-Oct-97	05-Dec-00	Method and Apparatus for Updating Addiess Lists for a Packet Filter Processor
412.US	868062	6580914	AT&T Wireless	United States	17-Aug-98	17-lm-03	Method and Apparatus for Automatically Providing Location-Based Information Content on a Wireless Device
414.US	09/207370	6427071	AT&T Wireless	United States	08-Dec-98	30-Jul-02	Apparatus and Method for Providing Transporting for a Control Stonal
416.US	772368	6256735	AT&T Wireless	United States	17-Aug-98	03-Jul-01	Method and Apparatus for Limiting Access to Network Elements
416.US.C1	09/839113	6334188	AT&T Wireless	United States	23-Apr-01	25-Dec-01	Method and Apparatus for Limiting Access to Network Elements
422.US	09/474138		AT&T Wireless	United States	29-Dec-99		System and Method for Integrating Call Delivery for Fixed-Site and Mobility Services
423.EPC	1973089.4		AT&T Wireless	European Patent Convention	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.JP	2002-527188		AT&T Wireless	Japan	18-Mar-03		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
. 423.PCT.CP1	PCT/US01/29029		AT&T Wireless	Patent Cooperation Treaty	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.US	09/010616	6141545	AT&T Wireless	United States	22-Jan-98	31-Oct-00	Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phone
423.US.C1	10/426046		AT&T Wireless	United States	29-Apr-03		Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phone

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Title	Method and System for Remote Call Forwarding of	Telephone Calls From an IP Connection	Method of Notifying a	Wireless Subscriber as to	Responsibilities	Method of Notifying a	Call Pending	Responsibilities Aircraft Cabin Telephony	Test Unit	Apparatus and Method for	Wireless Financial	Transactions	Method for Providing	Alternative Network-	Address Mobile	Registration	Method for Providing	Alternative Network-	Address Mobile	Registration	Method and Apparatus for	Authorization	Automatic Diagnostic for	Wireless Communication	System	System for Securing	Data Packet Flow in 8	Computer Network	Apparatus and Method for	Optimizing Wireless	
Grant Date		27-May-03			04-Mar-03							09-Feb-99			<del></del>										10-Aug-04					26 1421, 00	CC-Widy-03
Application Date		18-Sep-00			19-May-99			10-Oct-02	25-Aug-00			22-Sep-95		, ·		11-Jun-99		• •		07tuf-04		19-May-99			10-Aug-01			19-May-99			22-Sep-95
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	Owner		AT&I WIFEIESS		AT9T Mireless		:	AT&T Wireless	2001-041-07-4	Al&i Wireless		A TOT Mississipped	Alai Wireress			2001-141-0-4	A I & I WITEIESS				A1&I Wireless	3	AI & I WITEIESS		activity to the	AI&I WITEIESS		AT&T Wireless	אומו וווווו		AT&T Wireless
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Number         Owner         Name         Date         Date         Date of Organes           6675211         AT&T Wireless         United States         07.Jan-00         06-Jan-04         Organism of Carried by System and	Docket	Application	Patent		Country	Application	Grant		
09/489/52         AT&T Wireless         United States         07-Jan-00           C1         975473         AT&T Wireless         United States         21-Jan-00         06-Jan-04           C1         975473         AT&T Wireless         United States         21-Jan-00         06-Jan-04           C1         100644641         AT&T Wireless         United States         31-Aug-99         30-Sep-03           D2         08/647299         5391410         AT&T Wireless         United States         12-Mar-01           D9/802872         AT&T Wireless         United States         12-Mar-01           C1         -454817         AT&T Wireless         United States         17-Jun-03           C1         -454817         AT&T Wireless         United States         17-Jun-03           C2         -454817         AT&T Wireless         United States         17-Jun-03           C3         AT&T Wireless         United States         17-Jun-03           C4         -454817         AT&T Wireless         United States         17-Jun-03           AT&T Wireless         Canada         07-Jun-03         17-Jun-03	ımber	Number	Number	Owner	Name	Date	Date	Title	
09479066								System and Method for	he
094499152   6675211   AT&T Wireless   United States   07-Jan-00   06-Jan-04				,	•			Use of Digital Traffic	
09/479066         AT&T Wireless         United States         07-Jan-00         06-Jan-04           C1         975473         AT&T Wireless         United States         21-Jan-00         06-Jan-04           C1         975473         AT&T Wireless         United States         33-Dec-03         06-Jan-04           C1         100644641         AT&T Wireless         United States         31-Aug-99         30-Sep-03           D2         09/647299         5891410         AT&T Wireless         United States         12-May-96         23-Nov-99           D2         09/647299         5891410         AT&T Wireless         United States         12-May-96         23-Nov-99           C1         456817         AT&T Wireless         United States         12-Mar-01         24-Jun-03           C1         456817         AT&T Wireless         United States         17-Jun-09         24-Jun-03           C2         2026245         AT&T Wireless         United States         17-Jun-09         24-Jun-03           C3         203647         AT&T Wireless         United States         17-Jun-09         24-Jun-03           C1         45617         AT&T Wireless         United States         17-Jun-03         24-Jun-03           C2						0		Charmers III 13-130	_
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C1         975473         AT&T Wireless         United States         21-Jan-00         06-Jan-04           C1         975473         AT&T Wireless         United States         03-Dec-03         06-Jan-04           C1         10/644641         AT&T Wireless         United States         19-Aug-03         30-Sep-03           D2         08/647299         5591410         AT&T Wireless         United States         12-Mag-09         23-Nov-99           D2         09/602872         AT&T Wireless         United States         12-Mar-01         23-Nov-99           C1         -454817         6584321         AT&T Wireless         United States         17-Jun-09         24-Jun-03           C1         -454817         AT&T Wireless         United States         17-Jun-09         24-Jun-03           2026245         AT&T Wireless         Brazil         04-Jul-00         07-Jul-00								Adjusting the Traffic	
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09/386762   6628194   AT&I Wireless   United States   31-Aug-99   30-Sep-03								Mail, E-Mail, Pages, We	<u> </u>
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C1         -454817         6584321         AT&T Wireless         United States         27-Oct-99         24-Jun-03           C1         -454817         AT&T Wireless         United States         10-Jun-03         24-Jun-03           2026245         AT&T Wireless         United States         17-Jun-99         17-Jun-99           2313647         AT&T Wireless         Canada         07-Jul-00	<u>u</u>	0,000,000						Services at a Mobile	
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09/427417         6584321         AT&T Wireless         United States         27-Oct-99         24-Jun-03           C1         -454817         AT&T Wireless         United States         10-Jun-03           2026245         AT&T Wireless         United States         17-Jun-99           147314         AT&T Wireless         Canada         07-Jul-00								Method and Apparatus f	č
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147314   AT&T Wireless   Brazil   04-Jul-00			•					Method for Contacting a	
2313647 AT&T Wireless Canada 07-Jul-00	α			A TO T Mission	li-co-O	00 171 70		Subscriber to Multiple	
2313647 AT&T Wireless Canada 07-Jul-00		410141		Alal Wireless	Diazii	04-701-00		Wireless Bearer Service	Ţ
2313647 AT&T Wireless Canada 07-Jul-00								Method for Contacting a Subscriber to Multiple	
	4	2313647	•	AT&T Wireless	Canada	07-Jul-00		Wireless Bearer Service	•
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Docket         Application         Patent         Country         Application         Curing         Title           Number         Number         Number         Convention         Convention         Convention         Available           446_EPC         309600.9         AT\$T Wireless         Convention         07-Jul-00         Windhood to Contacting a Number of to Contacting a Number of to Contacting a State of the Number of							******	
December   Number   Number   Number   Convention   Oct-Jul-00   Oct-	Docket	Application	Patent	- Canada	Country	Application Date	Date	Title
Convention   Con	Number	Number	Number	OWIE				Method for Contacting a
2000-207063			•		European Patent	03-14-00	- :	Subscriber to Multiple Wireless Bearer Services
2000-207053	6.EPC	305600.9		AT&T Wireless	COLIVEILION	20.00		Method for Contacting a
2000-207053         AT&T Wireless         Japan         07-Jul-00           1         09/353241         6480720         AT&T Wireless         United States         14-Jul-99         12-Nov-02           1         457161         5611176         AT&T Wireless         United States         01-Jun-95         18-Mar-97           5,C1         09/52590         6775270         AT&T Wireless         United States         11-Feb-00         10-Aug-04           5,C1         09/52590         6775270         AT&T Wireless         United States         02-Mar-04         10-Aug-04           1         AT         AT&T Wireless         Brazil         22-May-00         10-Aug-04           A         2309406         AT&T Wireless         Canada         24-May-00         AABy-00           PC         302848.7         AT&T Wireless         Jappan         29-May-00         29-May-00           R         10-2000-033339         AT&T Wireless         Jappan         29-May-00         20-Jun-00								Subscriber to Multiple
A. D. Out - Cultures         Lunited States         14-Jul-99         12-Nov-02           5. C1         0.90753241         6480720         AT&T Wireless         United States         01-Jun-95         18-Mar-97           5. C1         457161         5611176         AT&T Wireless         United States         01-Jun-95         18-Mar-97           5. C1         0.90628980         6775270         AT&T Wireless         United States         11-Feb-00         10-Aug-04           5. C1(1)         635067         AT&T Wireless         United States         02-Mar-04         10-Aug-04           A         213517         AT&T Wireless         Brazil         22-May-00         10-Aug-04           PC         302848.7         AT&T Wireless         Convention         04-Agr-00         29-May-00           PC         2000-157517         AT&T Wireless         Japan         29-May-00         29-May-00           RR         10-2000-0030359         AT&T Wireless         South Korea         02-Jun-00		220200 0000	.:	AT&T Wireless	Japan	07-Jul-00		Wireless Bearer Services
12-Nov-02   14-Jul-99   12-Nov-02   12-N	6.JP	50002-0002		2000			•	Method for Contacting a
09/353241   0490720   AT&I Wireless   United States   14-Jul-99   12-Nov-02     457161   5611176   AT&I Wireless   United States   13-Sep-95   18-Mar-97     213517   635067   AT&I Wireless   United States   11-Feb-00   10-Aug-04     213517   AT&I Wireless   Brazil   22-May-00     22309406   AT&I Wireless   Canada   24-May-00     22000-157517   AT&I Wireless   Japan   23-May-00     2000-157517   AT&I Wireless   South Korea   02-Jun-00     2000-167517   AT&I Wireless   AT&I Wireless   South Korea   02-Jun-00     2000-167517   AT&I Wireless   AT&I Wireless							•	Subscriber to Multiple
C1 (1)         635067         AT&T Wireless         United States         01-Jun-95         18-Mar-97           C1 (1)         635067         AT&T Wireless         United States         11-Feb-00         10-Aug-04           C1(1)         635067         AT&T Wireless         United States         02-Mar-04         10-Aug-04           C1(1)         635067         AT&T Wireless         United States         02-Mar-04         10-Aug-04           C2 13517         AT&T Wireless         Canada         24-May-00         22-May-00           C2 302848.7         AT&T Wireless         Convention         04-Apr-00           C2 2000-157517         AT&T Wireless         South Korea         02-Jun-00	9		6480720	AT&T Wireless	United States	14-Jul-99	12-Nov-02	Wireless Bearer Services
437161   561176   AT&T Wireless   United States   01-Jun-95   12-Sep-96	0.03	147866180					10 115-07	Antenna Support Structure
C1         09/628980         6775270         AT&T Wireless         United States         11-Feb-00         10-Aug-04           C1(1)         635067         AT&T Wireless         United States         02-Mar-04         10-Aug-04           C1(1)         635067         AT&T Wireless         United States         02-Mar-04         10-Aug-04           C1(1)         635067         AT&T Wireless         Brazil         22-May-00         10-Aug-04           C1(1)         213517         AT&T Wireless         Canada         24-May-00         10-Aug-04           C2         302848.7         AT&T Wireless         Convention         04-Apr-00         10-Aug-00           C2         2000-157517         AT&T Wireless         Japan         29-May-00         10-Aug-00           AT&T Wireless         South Korea         02-Jun-00         02-Jun-00         02-Jun-00	17.US	457161	5611176	AT&T Wireless	United States	01-Jun-95	10-Mai-91	Antenna Support Structure
11-1-10-00-0528980   11-1-10-00-01-0-0-0-0-0-0-0-0-0-0-0-0-0				A TOT Michael	United States	13-Sep-95	22-Sep-98	(design)
11-Feb-00   10-Aug-04   11-Feb-00   11-F	48.US	43471	D398612	AIGI WIEESS				Method for Diverting an
(1) 635067 AT&T Wireless United States 02-Mar-04 III III III III III III III III III I			-		I Inited States	11-Feb-00	10-Aug-04	Talkpath
233547 AT&T Wireless United States 02-Mar-04 T  213517 AT&T Wireless Brazil 22-May-00  2309406 AT&T Wireless Canada 24-May-00  2000-157517 AT&T Wireless Japan 29-May-00  10-2000-030359 AT&T Wireless South Korea 02-Jun-00	51.US.C1	09/628980	6775270	Al&I Wireless	Omico Oraco			Method for Diverting an
635067   AT&T Wireless   United States   O2-Mar-04   No. 243517   AT&T Wireless   Brazil   22-May-00   No. 2309406   AT&T Wireless   Canada   24-May-00   AT&T Wireless   Convention   O4-Apr-00   AT&T Wireless   Japan   29-May-00   AT&T Wireless   South Korea   02-Jun-00   AT&T Wireless   South Korea   DA-Jun-00   AT&T Wireless   AT&T Wireless   South Korea   DA-Jun-00   AT&T Wireless   AT&T Wirele								ISUP Talkpath to an IP
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2309406 AT&T Wireless Brazil 22-May-00 N N N N N N N N N N N N N N N N N N								Telephone With a Voice
213517   AT&T Wireless   Brazil   22-May-00   N   N   N   N   N   N   N   N   N								Mail System Access
213517				AT&T Wireless	Brazil	22-May-00		Number
2309406         AT&T Wireless         Canada         24-May-00           C         302848.7         AT&T Wireless         Convention         04-Apr-00           2000-157517         AT&T Wireless         Japan         29-May-00           10-2000-0030359         AT&T Wireless         South Korea         02-Jun-00	52.BR	21351/		310				Method for Automatically
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2309406         AT&T Wireless         Canada         24-May-00           C         302848.7         AT&T Wireless         Convention         04-Apr-00           2000-157517         AT&T Wireless         Japan         29-May-00           10-2000-0030359         AT&T Wireless         South Korea         02-Jun-00								Number -
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2         302848.7         AT&T Wireless         Convention         04-Apr-00           2000-157517         AT&T Wireless         Japan         29-May-00           10-2000-0030359         AT&T Wireless         South Korea         02-Jun-00					European Patent	•		Mail System Access
2000-157517 AT&T Wireless Japan 29-May-00 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00				ATPT Windless	Convention	04-Apr-00		Number
2000-157517 AT&T Wireless Japan 29-May-00 10-2000-0030359 AT&T Wireless South Korea 02-Jun-00	452.EPC	302848.7		Algi Wildigs				Method for Automatically
2000-157517       AT&T Wireless       Japan       29-May-00         10-2000-0030359       AT&T Wireless       South Korea       02-Jun-00			-				,	Programming a Wireless
2000-157517         AT&T Wireless         Japan         29-May-00           10-2000-0030359         AT&T Wireless         South Korea         02-Jun-00				:		-		Mei Surfam Access
2000-157517 AT&T Wireless Japan 29-May-JU  10-2000-0030359 AT&T Wireless South Korea 02-Jun-00								Mail System Access
10-2000-0030359 AT&T Wireless South Korea 02-Jun-00	452.JP	2000-157517	4	AT&T Wireless	Japan	29-May-00		Method for Automatically
10-2000-0030359 AT&T Wireless South Korea 02-Jun-00				:		•	,,	Programming a Wireless
10-2000-0030359 AT&T Wireless South Korea   02-Jun-00								Telephone With a Voice
	452.KR	10-2000-0030359		AT&T Wireless	South Korea	05-Jun-00		Mail Oystern

Title	ber	Method for Automatically Programming a Wireless Telephone With a Voice Mail System Access	ıber	Method for Automatically Programming a Wireless Telephone With a Voice Mail System Access	ber house	Aircraft Data Communications Services	for Users	Aircraft Data Services	System and Method for Communication Between Airborne and Ground-Based Entitles	Aircraft Data Communications Services	for Users	Aircraft Data Services	Method and Apparatus for	Utilizing the North	American Terrestrial System	Method of Apparatus for	Use in Forwarding Calls Intended for Roaming Subscriber Units	Floating Intrusion Detection	Platforms	Floating Intrusion Detection Platforms	E-Mail Usage Pattern	5000
Grant Date	Number	Meth Prog	12-Apr-02 Number	Meth Prog	24-Dec-02 Number	Airca	for L	Airce	Syst Corr O6-Jul-04 Base		for L	Airci	Met		Ame	Meti	Use Inter	Floa	Plat	Floa	44 los 03	
Application Date			29-May-00		02-Jun-99		19-Jun-02	19-Jun-02	14-May-99		19-Jun-01	19-Jun-01			08-Apr-04		30-Dec-99		22-May-01	30-Mav-00	8	88-100-81
. Country Name			Taiwan		United States	Patent Cooperation	Treaty	Patent Cooperation Treaty	United States		United States	United States			United States		United States	European Patent	Convention	United States		United States
Owner			AT&T Wireless		AT&T Wireless		AT&T Wireless	AT&T Wireless	AT&T Wireless		AT&T Wireless	AT&T Wireless	•		ATET Mireless	2000	AT&T Wireless		AT&T Wireless	ATRT Wireless		AT&T Wireless
Patent Number			146948		6498930				27,507,78												141	6507866
Application Number			89110400		09/324486		PCT/US02/19336	PCT// IS02/19337	00/242044	1000	09/884724	09/884730		-	770070107	10/018844	19777700	1040/4/60	1304493.8	000000	. 600000	09/356974
Docket			452.TW		452.US		454.PCT.CP1	454 PCT CP2			454.US.CP1	454 US.CP2			Ç.	434.03.01	0110	403.03	459.EPC	31 327	453.05	463.US

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Title	Testing Methods and	Apparatus for Wireless Communications	Monitoring Network	Performance Using	t ocation & Performance	Information	Method and Apparatus for	Use in Providing a	Discounted Call Rate for	Wireless Communications	Method and Apparatus for	Use in Providing a Discounted Call Rate for	Wireless Communications	Method and Apparatus for	Use In Providing a	Discounted Call Rate for	Mothed and Apparatus for	Use in Providing a	Discounted Call Rate for	Wireless Communications	Method and Apparatus for	Use in Providing a	Discounted Call Rate for	Wireless Communications	Method for Registering	Service	Method for Registering	With a Communication	Service	Method for Registering	Service	Method for Registering	With a Communication	Service	Method for Registering	Service	
Grant Date																								28-Oct-03				·	16-Mar-04	<u>.</u>							
Application Date	2	28-Nov-00				21.Dec.00	2000			02-Aug-00		•	05-Aug-00		-		21-Dec-01			07-Aug-00				25-Apr-00	·	OF May 00	00-Inia)-00		19-Apr-00		13-Mar-00			27-Apr-00		01-May-00	VI-1VIGIT-VV
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	Owner		Alai Wireless		·		Al&I Wireless			AT&T Wireless			ATRT Mirelese				AT&T Wireless			AT&T Wireless	2000			AT&T Wireless			AI&I WIREIBSS		AT&T Wireless		ATOT Missippe	Algi Wireless	Ī	AT&T Wireless		and a Hell when	A I & I WIFEIESS
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Application	Number		650743				.09/745268			22440EE	2014030	-		116197.5			1109003.5		•	2000 220722	2000-238/22			09/557381			143329		2305071			302020.3		2000-127609			R010R24R
Docket	Number		470.US			-	472.US				44.04			474.EPC		٠	474.HK			9	4/4.3P			SILVE	2001	•	475.BR	•	475 CA	50.00		475.EPC		475.10			475 TW

Docket	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title
475.US	09/306761		AT&T Wireless	United States	07-May-99		Method for Registering With a Communication Service
475.11S.C.1	10/890298		AT&T Wireless	United States	14-Jul-04		Method for Registering With a Communication Service
481.US	09/615485	6577723	AT&T Wireless	United States	13-Jul-00	10-Jun-03	Application of TCAP Criteria in SCCP Routing
						·	System and Method of Using Local Number Portability (INP) to
483.US	-176167		AT&T Wireless	United States	07-Jun-00		Redirect Terminating Calls to a Service Node
488.PCT	PCT/US02/21308		AT&T Wireless	Patent Cooperation Treaty	31-Jul-02		Attribute Rule Enforcer for a Directory
488.US	588650		AT&T Wireless	United States	01-Aug-01		Attribute Rule Enforcer for a Directory
490 CA	2463700		AT&T Wireless	Canada	20-Dec-01		Methods and Systems for Communicating and Controlling Facsimile Information
490 PCT	PCT/(1501/49729		AT&T Wireless	Patent Cooperation Treaty	20-Dec-01		Methods and Systems for Communicating and Controlling Facsimile Information
490 US	09/745209		AT&T Wireless	United States	21-Dec-00		Methods and Systems for Communicating and Controlling Facsimile Information
490 US C.1	mailed		AT&T Wireless	United States	17-Sep-04		Methods and Systems for Communicating and Controlling Facsimile Information
491 AR	10104905		AT&T Wireless	Argentina	18-Oct-01		Method of Sharing Revenue for Transmission of Wireless Data From a Vehicle
491.PCT	PCT/US01/50369		AT&T Wireless	Patent Cooperation Treaty	19-Oct-01		A Method of Sharing Revenue for Transmission of Wireless Data From a Vehicle
					.:		

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Docket	Application	Patent			Application	Grant	Title
DOCKEL	Mumber	Number	Owner	Name	255		Method of Sharing
Number	Nullingi			<del>-</del> -			Revenue for Transmission
							of Wireless Data From a
				Venezuela 1	18-Oct-01		Venice Nothod for
91.VZ	2206-2001		Al&I Wireless			Έ.	System and Memos 10:
							Adiomatican princip
							a Call From a Files
							Telephone to a Designated
						0.	Telephone in Close
				Chatter Chatter	20.Dec-99		Proximity
	2579858	•	AT&T Wireless	$\dagger$			System and Method for
93.05	2310030						Using a Short-Range
		· ·			. •		Radio Link to Directly
		•					Communicate Between
•	. •						Telephones Connected
							Through
							Primary Communications
٠		. =					Network
			ATPT Mireless	United States	20-Dec-99		Televola Conicos
80 PB	2557308		AIGI WIIGIGSS			_ <u>-</u> -	l elematics services
2012							System Using verifice
		· ·					Electronics for Memory and
				1 Inited States	16-Oct-00		I/O Functions
311207	09/688401		AT&T Wireless	Ollifed States			Methods and Systems for
487.03	200000		ļ			. •	Using Network Capabilities
					18.Doc-00		to Correct Phone Displays
	770007	. •	AT&T Wireless	United States	10-06-00		Multiple Handset Cradle
498.US	08/738044				00 1014 00		Assembly
			AT&T Wireless	United States	00-A0NI-07	-	Methods and Systems for
499.US	311432	-		•		·	Audio Distribution Over
							Aircraft
		:					Telecommunications
•		•		į	10 1001		Wiring
			AT&T Wireless	United States	10-kew-01		Activation and Remote
501.US	-266747			:			Modification of Wireless
							Services in a Packet
					00		Network Context
			AT&T Wireless	United States	07-NON-00	-	A Method for Programming
503.US	09/707671						a Mobile Station Using a
							Permanent Mobile Station
							Hoofiffer
			AT9T Mirelace	United States	01-Nov-00		Method and Annaratus for
504.US	09/703858		AIGI WIIGIGSS				Drawding Personal Audio
					·	<u></u>	Alert Messaging for Audio
· <del></del>				European Patent	03-Mav-02		Alerting Capable Terminals
ENE EDC	2734147.8		AT&T Wireless	Convention	2		
2 12.000			·	•			
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Docket	Application	Patent		Country	Application	Grant		•
Number	Number	Number	Owner	Name	Date	Date	Title	
				Datont			Method and Apparatus for	
		-		Cooperation			Providing Personal Audio	
	7000 FEO.		i de la companya de l	Tooperation	23 17500		Alert Messaging for Audio	
200.00	PC1/USUZ/13904		A I & I WIFEIESS	ILEGIA	03-May-02		Alerting Capable Terminals	
	•						Personal Audio Alert	
Eng 110				11-11-11			Message for Audio Alerting	
360.03	08/88830		A I & I WIreless	United States	LO-101-90		Capable reminal	
							Method and Apparatus for	
							Providing Interactive Text	
507116							Messages During a Voice	
307.03	-5//934		AT&T Wireless	United States	31-Jul-01		Call	
							Method and Systems for	
	. '						Managing Customizable	
				European Patent	•		Content on Wireless Data	
513.EPC	1111280.2		AT&T Wireless	Convention	16-May-01		Devices	
							Method and Systems for	
				•			Managing Customizable	
							Content on Wireless Data	
513.JP	2001-146263		AT&T Wireless	Japan	16-May-01		Devices	
							Methods and Systems for	
							Managing Information on	
513.US	372427	6603984	AT&T Wireless	United States	14-May-01	05-Aug-03	Wireless Data Devices	
				Patent			Using Wireless Cookles to	
				Cooperation			Deliver Network-Based	
517.PCT	PCT/US02/18611		AT&T Wireless	Treaty	12-Jun-02		Location Information	
							Using Wireless Cookles to	
							Deliver Network-Based	
517.US	09/879351		AT&T Wireless	United States	12-Jun-01		Location Information	
							System and Method of	
							Providing Public Voicemail	
						,	Service to Private Network	
519.05	09/867989		AT&T Wireless	United States	30-May-01		Subscribers	
							System and Method for	
							Using a Temporary	
•				•			Electronic Serial Number	
				A	70		for Over-the-Air Activation	
320.AK	6/160101		A L& I WIREIESS	Argentina	LO-AON-CO		OT 8 MODILE DEVICE	
				•			System and Method for	
						•	Using a Temporary	
•							Electronic Senai Number	
2000	0001000		. And Williams	li-co-G	07 Nov. 04		for Over-une-Air Activation	:
250.01	101001202		Aldi Wildios					•

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Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			System and Method for
							Using a Temporary Flectronic Serial Number
				-			for Over-the-Air Activation
				Canada	03-Oct-01		of a Mobile Device
520.CA	2358175		AT&T WIreless	Callada			System and Method for
						•	Using a Temporary
. •				Curpopa Patent		,	for Over-the-Air Activation
				Convention	07-Nov-01		of a Mobile Device
520.EPC	1994191.3		AIĞI Wireless				System and Method for
							Using a Temporary
	:						for Over-the-Air Activation
					10-volv-01		of a Mobile Device
520 IP	2002-558719		AT&T Wireless	Japan			System and Method for
250.31						. •	Using a Temporary
				<u></u>			Electronic Serial Number
		. :					for Over-the-Air Activation
			AT&T Wireless	Mexico	01-Nov-01		Sistem and Mathod for
520.MX	PA/a/2001/0111/5						Using a Temporary
			•	Datent		-	Electronic Serial Number
	. •			Cooperation		. •	for Over-the-Air Activation
			ATRT Wireless	Treaty	07-Nov-01		of a Mobile Device
520.PCT	PCT/US01/47711		אומו אווער				System and Method for
				-			Using a Temporary
						<u></u>	for Over-the-Air Activation
•				1 Inited States	02-Nov-00	08-Jul-03	of a Mobile Device
520.US	09/707593	6591098	AT&I Wireless	Ollica Olarica			System and Method for
	-						Using a Temporary
							for Over-the-Air Activation
					09.005.03		of a Mobile Device
E20116 C4	10/409770		AT&T Wireless	United States	מיייטי		System and Method for
320.03.01							Using a Temporary
							for Over-the-Air Activation
	-				DE Now Of		of a Mobile Device
520 02	2001-002318		AT&T Wireless	Venezuela	200120		Using a Wireless Cookie to
				Conneration			Deliver Mobile-Based
1			AT&T Wireless	Treaty	12-Jun-02		Location Information
525.PCT	PCT/US0Z/1861Z						ψ.

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title
525.US	09/879349		AT&T Wireless	United States	12-Jun-01		Using a Wireless Cookie to Deliver Mobile-Based Location Information
527.CA	2428440		AT&T Wireless	Canada	16-Nov-01		A Short Message Point-to- Point Protocol Gateway Having a Standard Interface
527.EPC	1994087.3		AT&T Wireless	European Patent Convention	16-Nov-01		An SMPP Galeway Having a Standard Interface
527.PCT	PCT/US01/43671	·	AT&T Wireless	Patent Cooperation Treaty	16-Nov-01		An SMPP Galeway Having a Standard Interface
527.US1	09/714036		AT&T Wireless	United States	16-Nov-00		An SMPP Gateway Having a Standard Interface
527.US2	09/714035		AT&T Wireless	United States	17-Nov-00		Method of Delivering Short Messages Using an SMPP Gateway With a Standard Interface
527.US3	09/714034	·	AT&T Wireless	United States	17-Nov-00		Method of Binding to a SMPP Gateway
527.US4	09/714033		AT&T Wireless	United States	17-Nov-00		A System and Method for Performing Anti-Spam Control Using a SMPP Gateway
527.US5	09/714032		AT&T Wireless	United States	17-Nov-00		A System and Method for Performing Throttle Control in a SMPP Gateway
527.US6	09/714031		AT&T Wireless	United States	16-Nov-00		A System and Method of Performing Flow Control in a SMPP Gateway
528.PCT	PCT/US02/11450		AT&T Wireless	Patent Cooperation Treaty	12-Apr-02		Scrolling Display for Mobile Telephone Text Messaging
528.US	10/120475	6799033	AT&T Wireless	United States	10-Apr-02	28-Sep-04	Scrolling Display for Mobile Telephone Text Messaging
530.US	09/968528		AT&T Wireless	United States	02-0ct-01		Network Access Using Network Identification
531.AR	10104906		AT&T Wireless	Argentina	18-Oct-01		Shared-Revenue Billing System for Transmission of

Application   Patent	40.70	Ameliantian	troted		Country	Application	Grant	
1987994.9   AT&T Wireless   European Patent   19-May-03   V   V   V   V   V   V   V   V   V	Number	Application	Nimber	Owner	Name	Date	Date	Title
1987994.9	1901III							Wireless Data From a Vehicle
1987994.9   AT&T Wireless   Convention   19-May-03   V   V   V   V   V   V   V   V   V								Apparatus and Method for
1967994.9   AT&T Wireless   European Patent   19-May-03   Voluments   1967994.9   AT&T Wireless   Cooperation   19-Oct-01   States   Oct-01-02   AT&T Wireless   United States   Oct-01-03   Oct-01-03   AT&T Wireless   United States   Oct-01-04   AT&T Wireless   Wenczuela   18-Oct-01   AT&T Wireless   AT&T Wireless   Wenczuela   18-Oct-01   AT&T Wireless   AT&								Monitoring a Wireless
199799.9 AT&T Wireless Convenion 19-0ct-01 Septent Cooperation 19-0ct-01 Septent Septent 10:062773 AT&T Wireless United States 19-0ct-00 15-Jun-04 AT&T Wireless United States 07-Jun-04 CP1 10:085427 AT&T Wireless United States 06-Jut-04 AT&T Wireless United St					European Patent			Device Associated With a
Patent   Poct/US01/80164   Patent   Patent   Patent   Patent   Poct-01   Patent   Poct-01   Patent   Poct-01   Patent	531.EPC	1987994.9		AT&T Wireless	Convention	19-May-03		Venicie
PCT/US01/50164				-	4-1-1-1			Shared-Revenue Billing
C1 10/862773 AT&T Wireless United States 19-Oct-00 15-Jun-04 C2 mailed AT&T Wireless United States 07-Jun-04 CP1 10/865427 AT&T Wireless United States 06-Jul-04 CP1 10/865427 AT&T Wireless United States 06-Jul-04 CP1 10/865427 AT&T Wireless Venezuela 18-Oct-01 CP2 AT&T Wireless Venezuela 18-Oct-01 COPPATION STATE WIRELESS Venezuela 18-Oct-01 CAMPACIA TATE WIRELESS VENEZUELA 10-OCT-01 CP 10/865427 AT&T WIRELESS VENEZUELA 10-OCT-01 CP 10/865427 AT&T WIRELESS VENEZUELA 18-OCT-01 CP 10/865427 AT&T WIRELESS VENEZUE				• .	Patent		. •	System for Transmission of
C1 10/862773 AT&T Wireless United States 19-Oct-00 15-Jun-04 V AT&T Wireless United States 07-Jun-04 I S-Jun-04 V AT&T Wireless United States 06-Jul-04 I Detent Cooperation CA-Jun-04 AT&T Wireless United States 06-Jul-04 I Detent CA-Jun-04 AT&T Wireless Venezuela 18-Oct-01 CA-Jun-04 AT&T Wireless Venezuela 18-Oct-01 AT&T Wireless Venezuela 18-Oct-01 AT&T Wireless Venezuela 18-Oct-01 AT&T Wireless AT&T Wir			•		Cooperation	70 00		Wireless Data Iron a
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C1   10/862773   AT&T Wireless   United States   19-Oct-00   15-Jun-04   Value   Val							•	Shared-Reveniue Dining
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C1 10/862773 AT&T Wireless United States 07-Jun-04  C2 mailed AT&T Wireless United States 06-Jul-04  CP1 10/885427 AT&T Wireless United States 06-Jul-04  2205-2001 AT&T Wireless Venezuela 18-Oct-01  Patent Cooperation 03-Jul-02  Treaty 05-Jul-01 27-May-03	9	00/604708	C7E447E	AT&T Wireless	United States	19-Oct-00	15-Jun-04	Vehicle
10/862773 AT&T Wireless United States 07-Jun-04  mailed AT&T Wireless United States 06-Jul-04  2205-2001 AT&T Wireless United States 06-Jul-04  Patent Cooperation 03-Jul-02  PCT/US02/21073 AT&T Wireless Treaty 05-Jul-02  Treaty 05-Jul-02  AT&T Wireless OF-Jul-04  AT&T WI	531.03	08/180/80	0.410.00					Methods and Systems for
10/862773 AT&T Wireless United States 07-Jun-04  mailed AT&T Wireless United States 06-Jul-04  2205-2001 AT&T Wireless Venezuela 18-Oct-01  Patent Cooperation 03-Jul-02  AT&T Wireless Venezuela 18-Oct-01  Cooperation Cooperation Co-Jul-02  AT&T Wireless Venezuela 18-Oct-01  AT&T Wireless Venezuela 18-Oct-01  AT&T Wireless Venezuela 18-Oct-01  AT&T Wireless Treaty Co-Jul-02								Monitoring Data
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10/862773 AT&T Wireless United States 07-Jun-04  mailed AT&T Wireless United States 06-Jul-04  2205-2001 AT&T Wireless Venezuela 18-Oct-01  Patent Cooperation Cooperation Cooperation AT&T Wireless Treaty 03-Jul-02  Patent Cooperation 3-Jul-02  AT&T Wireless Venezuela 18-Oct-01  Cooperation Cooperation Cooperation Cooperation Cooperation AT&T Wireless Treaty 32-Jul-02  AT&T Wireless Venezuela 18-Oct-01  AT&T Wireless Venezuela 33-Jul-02  AT&T Wireless Venezuela 33-Jul-03  AT&T Wireless Venezuela 33-Jul	•							Wireless Device
10/862773   AT&T Wireless   United States   07-Jun-04	•							Associated with a Venical
mailed         AT&T Wireless         United States         06-Jul-04           1         10/885427         AT&T Wireless         United States         06-Jul-04           2205-2001         AT&T Wireless         Venezuela         18-Oct-01           Patent Cooperation         Cooperation Cooperation         03-Jul-02           PCT/JUS02/21073         AT&T Wireless         Treaty         03-Jul-02	531 LIS C1	10/862773		AT&T Wireless	United States	07-Jun-04		or Other Device
10/885427	20:00:150	0.13000						Shared-Revenue Billing
mailed         AT&T Wireless         United States         06-Jul-04           1         10/885427         AT&T Wireless         United States         06-Jul-04           2205-2001         AT&T Wireless         Venezuela         18-Oct-01           PCT/US02/21073         AT&T Wireless         Treaty           AT&T Wireless         Treaty         03-Jul-02           AT&T Wireless         Treaty         03-Jul-02           AT&T Wireless         Treaty         03-Jul-02								System for Transmission of
mailed								Wireless Data from a
1 10/885427 AT&T Wireless United States 06-Jul-04 2205-2001 AT&T Wireless Venezuela 18-Oct-01 Cooperation Cooperation 03-Jul-02 AT&T Wireless Treaty 08-Jul-01 27-May-03	531.US.C2	mailed		AT&T Wireless	United States	06-Jul-04		Acino de la companya
CP1         10/885427         AT&T Wireless         United States         06-Jul-04           2205-2001         AT&T Wireless         Venezuela         18-Oct-01           :T         PCT/US02/21073         AT&T Wireless         Treaty         03-Jul-02           :T         PCT/US02/21073         AT&T Wireless         Treaty         06-Jul-01         27-Mav-03			*					Methods and Systems for
CP1         10/885427         AT&T Wireless         United States         06-Jul-04           2205-2001         AT&T Wireless         Venezuela         18-Oct-01           Cooperation         Cooperation         Cooperation           Treaty         AT&T Wireless         Treaty           Thitad States         06-Jul-01           AT&T Wireless         I Inited States								Monitoring Data
CP1         10/885427         AT&T Wireless         United States         06-Jul-04           2205-2001         AT&T Wireless         Venezuela         18-Oct-01           Patent Cooperation Cooperation Cooperation AT&T Wireless         Treaty O3-Jul-02           Treaty CALLION States O6-Jul-01         27-May-03				-				Wireless Device
2205-2001  AT&T Wireless United States Oct-01  Patent Cooperation Cooperation O3-Jul-02  Treaty O3-Jul-01 27-May-03					t Inited Ctatos	OB. Int.Od		Associated with a Vehicle
2205-2001	531.US.CP1	10/885427		Alai Wireless	חווופת סומוסס			Shared-Revenue Billing
AT&T Wireless   Venezuela   18-Oct-01								System for Transmission of
AT&T Wireless   Venezuela   18-Oct-01								Wireless Data From a
Patent Cooperation Cooperation 03-Jul-02 Treaty 03-Jul-02	.534 1/7	2205,2001		AT&T Wireless	Venezuela	18-Oct-01		Vehicle
Patent Cooperation Cooperation O3-Jul-02 Treaty Treaty O3-Jul-02 Treaty AT&T Wireless Treaty O3-Jul-02 27-May-03	331.75	7707-7001						Method and System for
PCT/US02/21073 AT&T Wireless Treaty 03-Jul-02 AT&T Wireless Treaty 03-Jul-02 AT&T Wireless Treaty 03-Jul-01 27-May-03					•			Audibly Announcing an
PCT/US02/21073 AT&T Wireless Treaty 03-Jul-02  AT&T Wireless Treaty 03-Jul-02  AT&T Wireless Treaty 03-Jul-02		•			Patent			Indication of all identity of
PCT/US02/21073 AT&T Wireless Treaty 03-Jul-UZ AT&T Wireless Treaty 03-Jul-UZ AT&T Wireless Treaty 03-Jul-UZ					Cooperation			a sender of a
A T o T Window   1 Inited States   06-111-01   27-May-03	532.PCT	PCT/US02/21073		AT&T Wireless	Treaty	03~Jul-02		Communication
A T o T Windows   1 Inited States   06-10-01		-					<u>.</u>	Method and System for
27-May-03			· · ·	6				Indication of an Identity of
A T T T T T T T T T T T T T T T T T T T								a Sender of a
	227 1 10		6570083	AT&T Wireless	United States	06-Jul-01	27-May-03	Communication

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Title	Location Information Erase on SIM Cards	Prepaid Phone Service for Both Wired and Wireless Telecommunication Devices	Sharing of Wireless Telephone Services for a Personal Wireless Telephone and a Vehicular Wireless Telephone	Sharing of Wileless Telephone Services for a Personal Wireless Telephone and a Vehicular Wireless Telephone	Intelligent Network Selection Based on Quality of Service and Applications Over Different Wireless Networks	Operations, Administration and Maintenance of Components in a Mobility					
Grant Date						04-Mar-03			,		·
Application Date	21-Dec-00	19-Dec-01	20-Dec-01	21-Dec-01	21-Dec-01	21-Dec-00	17-Dec-02	03-061-01	03-Oct-01	29-Dec-00	15-Nov-01
Country Name	United States	Argentina	Chile	European Patent Convention	Patent Cooperation Treaty	United States	United States	Patent Cooperation Treatv	United States	United States	United States
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number						6529593				·	
Application Number	09/742313	10105972	3117-2001	1991484.5	PCT/US01/49803	09/742924	10/322218	PCTA ISO1/31205	09/07/1080	09/752487	2414133
Docket Number	<del>                                     </del>	535.AR	235.CL	535.EPC	535.PCT	535.US	535.US.C1	536 PCT	. SI 985	239.US	540.US

						411	
Docket	Application	Patent	3	Country	Application Date	Date	Title
Number	Number	Number	Owner				Network
							Inter-Carrier Sort Text
			AT&T Wireless	Canada	22-Jan-03		Inter-Carrier Sort Text
541.CA	2417028			United States	17-Jan-03		Message Delivery
541.US	10/347504		A1&1 Wireless	United States	10.Dec-01		Quick SMS Reply
542.US	10/024833		AT&T Wireless	Onlied States	1000-61		Methods and Systems for
						-	Providing Application Level
	·:			Amontina	20-Nov-01		Wireless Communication
543.AR	10105421		AI&I Wireless	a milos			Methods and Systems for
							Presence Information in
			AT&T Wireless	Chile	20-Nov-01	•	Wireless Communication
543.CL	2820-2001			T Datont			Wireless Communication
			ATST Wirelass	Convention	20-Nov-01		Presence Information
543.EPC	1997932.7		Alai Viididaa				Methods and Systems for Providing Application Level
		• 9		Patent			Presence Information in
		•		Trank	20-Nov-01		Wireless Communication
543.PCT	PCT/US01/43228		AI&I Wireless	Heav			Methods and Systems for
,							Providing Application Level Presence Information in
			TOTAL SOCIETY	United States	20-Nov-01	·	Wireless Communication
543.US	1596720		AI & I WII EI ESS				Electronic Surveillance Via
		•	AT&T Wireless	United States	27-Feb-02		Correlation of Call Legs
548.US	10/086192						Correlation of Call Legs in
				I Inited States	27-Feb-02		a Hairpin Loop Scenario
549.US	10/085491	·:	A1&1 Wireless	2000			Wireless Communications
				· ·			Operation for Reducing
				Canada	30-Jan-98	31-Dec-02	Fraud
550.CA	2278535	2278535	Al&i Wireless	Callac		Ŀ	Wireless Communications
			·.			<u> ;;                                   </u>	System and Method of Operation for Reducing
			ATRT Wirefoce	Convention	30-Jan-98	04-Aug-04	Fraud
550.EPC	98904768.3	956733	Algi Wildigg				Wireless Communications
					÷ .		Operation for Reducing
ō.	2515700		AT&T Wireless	Japan	30-Jan-98		Fraud
330.35	201010				.,		

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Title	Wireless Communications System and Method of Operation for Reducing Fraud	nmunications Viethod of Reducing	Wireless Communications System and Method of Operation for Reducing Fraud	Real-Time Network Analysis and Performance Management	Real-Time Drive Network Analysis and Performance Management	A Method and Apparatus to Manage a Resource	A Method and Apparatus to Store, Access, and Forward Messages	SACCH-Based Fast Power Control for GERAN (GSM Edge Radio Access Network)	Hotiline Routing of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	Hotline Routling of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	ng of Pre- M Jsing Pseudo	ng of Pre- M Ising Pseudo
Ţ	Wireless Communication System and Method of Operation for Reducing Fraud	Wireless Communications System and Method of Operation for Reducing Fraud	Wireless Communicatio System and Method of Operation for Reducing Fraud	Real-Time Network Analysis and Perfor Management	Real-Time Drive Network Analysis and Performanc Management	A Method and Appar Manage a Resource	A Method and Appa Store, Access, and Forward Messages	SACCH-Based Fast Powe Control for GERAN (GSM Edge Radio Access Network)	Hotline Routing of Pre- Activated GSM Subscribers Using Pse MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pse MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pse MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo
Grant Date	06-Dec-02	16-May-00	21-May-02									
Application Date	30-Jan-98	31-Jan-97	30-Nov-99	04-Mar-02	04-Mar-02	26-Oct-01	27-Nov-01	08-Nov-01	04-Jun-02	18-May-04	04-Jun-02	04-Jun-02
Country Name	Mexico	United States	United States	Patent Cooperation Treaty	United States	United States	United States	United States	European Patent Convention	Hong Kong	Patent Cooperation Treaty	States
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	211880	6064875	6393283		*		·					
Application Number	997060	1288790	09/451589	PCT/US02/06909	10/090265	10/039577	09/995327	60/337892	2734731.9	4103513.8	PCT/US02/18053	10/162304
Docket Number	550.MX	550.US	550.US.C1	553.PCT	553.US	557.US	559.US	562P.US	564.EPC	564.HK	564.PCT	564.US

		10000		Country	Application	Grant		
Docket	Application	Nimber	Owner	Name	Date	Date	Title	
							MSISDNs	
							Methods and Apparatus for Mobile Station Location	
	2441764		AT&T Wireless	Canada	03-Apr-02		Methods and Apparatus for	• •
	0007740 4		AT&T Wireless	China P.R.	03-Apr-02		Mobile Station Location Estimation	
NO.686			ATOT Wilsolves	European Patent	03-Apr-02		Methods and Apparatus for Mobile Station Location Estimation	
565.EPC	2759749.1		Ala Wieles				Methods and Apparatus for Mobile Station Location	
565.JP	mailed		AT&T Wireless	Japan	03-Apr-02		Estimation Methods and Apparatus for	
SEE VO	2003.7012902		AT&T Wireless	South Korea	03-Apr-02		Mobile Station Location Estimation	. '
	110000000000000000000000000000000000000		AT&T Wireless	Mexico	03-Oct-03		Methods and Apparatus for Mobile Station Location Estimation	
NW.coc	T Valcuosional		AT 8 T Wilders	Patent Cooperation Treaty	03-Apr-02	.· •	Methods and Apparatus for Mobile Station Location Estimation	
565.PCT	PCT/US0Z/10/91			Inited States	08-Mar-04		Mobile-Assisted Network Location System (MNLS) Overview	
565.US	10/473926		AIGI Wileless				Methods and Apparatus for Anonymous User	
				č			Identification and Content Personalization in Wireless	
566.US	1839637		AT&T Wireless	China P.R.	17-Oct-03		Binding Information for IP Media Flows	
568.CN	2738813.3		AT&T Wireless	European Patent Convention	16-Apr-02		Binding Information for IP Media Flows	
568.JP	mailed		AT&T Wireless	Japan	17-Oct-03		Binding Information for IP Media Flows	
	200012100		AT&T Wireless	Patent Cooperation Treatv	16-Apr-02		Binding Information for IP Media Flows	
568 US	10/091047		AT&T Wireless	United States	04-Mar-02		Binding Information for IP Media Flows	-
3	1000001							

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
573 EPC	1112794		AT&T Wireless	European Patent Convention	16-May-01		Method and Systems for Searching and Managing Information on Wireless Data Devices
573.JP	2001-146264		AT&T Wireless	Japan	16-May-01	÷	Method and Systems for Searching and Managing Information on Wireless Data Devices
573.US	456433		AT&T Wireless	United States	14-May-01		Method and Systems for Searching and Managing Information on Wireless Data Devices
576.EPC	2773532.3		AT&T Wireless	European Patent Convention	30-Apr-04	·	Recognition of an Automatic Connection Using Spoken Address Information Received in Voice Mails and Real Time Telephone Conversations
578.PCT	PCTAJS02/30124		AT&T Wireless	Patent Cooperation Treaty	19.Sep-02		Recognition of an Automatic Connection Using Spoken Address Information Received in Voice Mails and Real Time Telephone Conversations
S76.US	09/972572		AT&T Wireless	United States	03-Oct-01		System and Method for Recognition of and Automatic Connection Using Spoken Address Information Received in Voice Mails and Live Telephone Conversations
577.CA	mailed		AT&T Wireless	Canada	24-Jun-02	·	Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Device, Such as a Wireless Phone
577.PCT1	PCT/US02/20105		AT&T Wireless	Patent Cooperation Treaty	24-Jun-02		Method and Apparatus for Providing Power and Wireless Protocol Capability to a Wireless Device, Such as a Wireless Phone

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	Title	Wireless Adapter for Use	With Prophetary names  Free Car Kits in Support of	Multi-Model Mobile Phones		Bluetooth External Module	for Car Radio	Method and Apparatus for	Providing Power and	Wireless Protocol	Capability to a Wireless	Device, Such as a Wireless	Phone	Method and Apparatus for	Wireless Protocol	Capability to a Wireless	Device, Such as a Wireless	Phone	Wireless Adapter for Use	With Proprietary Hands-	Free Car Kits in Support of	Multi-Model Mobile Priories	Bluetooth External Module	for Car Radio	System and Method for	Providing an Automatic	Response to a relephone	Method and Annaratus for	Preventing Wireless Fraud	Secure	Validation/Registration of	Analog Cellular Phones	A Celidan Constillity	MAIN Download Capability	System	A Cellular/PCS Handset	NAM Download Capability	Using a Wide-Area Paging	System
1	Grant												21-Oct-03									٠							30-Jul-96			19-May-98			40.00	220-01			18-Feb-00
	Application Date		,	24-Jun-02		_	24. lin-02	70-1102-47				*	31-Dec-01					29-111-03		-		31-Dec-01		31-Dec-01		· ·		06-May-02	12_Mav_05	20 (2007)		23-May-96			70	15-Jun-94			16-Jun-94
	Country	Maile	Patent	Cooperation		Constitution	Cooperation	reary					United States				•	I Inited Ctates	Office States			United States		United States				United States	1 Initial Chatee	Ollifeu Olares		United States				China P.K.			Japan
	Č	Owner			A1&1 Wireless			AT&T Wireless					AT&T Wireless		•		-		AT&I WIreless	-	- •	AT&T Wireless	Alai Wildias	ATRT Wireless	Alai wiicioss			AT&T Wireless		AT&T Wireless		AT&T Wireless		. :		AT&T Wireless			AT&T Wireless
	Patent	Number	. •					2	•				0725240	0020743																5541977		5754952				94106449.2		•	3035158
	Application	Number		•	PCT/US02/20165	3		PCT/US02/20121				•		10/036168					10/630646				10/036151		10/036109			2616507	20000	08/440183		08/652214	00/0322 14			94106449.2			6-155408/1994
	Docket	Number	-		577.PCT2			577 PCT3		_				577.US1				•	577.US1.C1				577.US2		577.US3			311 202	203.03	586.US.C1		C 201 180 2	280.03.02	•.		587.CN		•	587.JP

Nimber	Nimber	Patent		Country	Application .	Grant	· (
IDAIII DAI	Mulipel	Jacunn	Owner	Name	Date	Date	little
			-		-		A Cellular/PCS Handset
		•					NAM Download Capability
. 07 703	40 4004 004 04			2			Using a Wide-Area Paging
JO. 100	10-1994-0011468	363502	AT&T WIreless	South Korea	26-May-94	24-Aug-02	System
							Cellular/PCS Handset
			•				NAM Download Capability
							Using a Wide-Area Paging
587.US.C2	08/700135	5722084	AT&T Wireless	United States	20-Aug-96	24-Feb-98	System
		*					Traffic Information
							Estimation and Reporting
588.CA	2183284	2183284	AT&T Wireless	Canada	14-Aug-96	27-Jul-99	System
							Traffic Information
							Estimation and Reporting
388.UE	763807	DE69611274D	AT&T Wireless	Germany	28-Aug-96	20-Dec-00	System
							Traffic Information
				European Patent			Estimation and Reporting
388.EPC	96113768.4	763807	AT&T Wireless	Convention	28-Aug-96	20-Dec-00	System
							Traffic Information
							Estimation and Reporting
388.FK	96113768.4	763807	AT&T Wireless	France	28-Aug-96	20-Dec-00	System
		•			•		Traffic Information
2000							Estimation and Reporting
200.000	96113768.4	763807	AT&T Wireless	Great Britain	28-Aug-96	20-Dec-00	System
							Traffic Information
							Estimation and Reporting
288.JF	242430/1996		AT&T Wireless	Japan	13-Sep-96		System
							Traffic Information
588.MX	963902	199227	AT&T Wireless	Movico	90 60 06	00 00	Estimation and Reporting
			2000	Sivola	02-080-00	74-OCI-00	System
							I raffic information
588.US	768685	5732383	AT&T Wireless	United States	14-Sep-95	24-Mar-98	System
							Pager-Controlled Wireless
589.AU	10091/97	721050.	AT&T Wireless	Australia	09-Jan-97	05-Oct-00	Radiotelephone
40		:	-				Pager-Controlled Wireless
289.CA	2192500		AT&T Wireless	Canada	10-Dec-96		Radiotelephone
		٠		European Patent			Pager-Controlled Wireless
589.EPC	97100336.3		AT&T Wireless	Convention	10-Jan-97		Radiotelephone
							Pager-Controlled Wireless
289.JP	2480/1997		AT&T Wireless	Japan	10-Jan-97		Radiotelephone
589.US	08/584417	5737707	AT&T Wireless	United Ctates	11 los 06	90 02	Pager-Controlled Wireless
			2000	Solo Comico	001100	08-10-10	radioteleprione

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Docket	Application	Patent	2000	Country	Application Date	Date	Title
Number	Number	Number	OWIE				Automated Wireless-Call
				Australia	09-lan-97	19-Oct-00	Completion Using a raging Network
	10092/97	721605	Al&I Wireless	Australia			Automated Wireless-Call
		2400642	AT&T Wireless	Canada	10-Dec-96	05-Dec-00	Network
	2192513	6162612		Curocon Datent			Automated Wireless-Call
			AT&T Wireless	Convention	10-Jan-97	·r	Network
591.EP.C	97 100337.1			acuc	10-lan-97		Automated Wireless-Call Completion Using a Paging Network
-	2479/1997		Alaı wireless	Japan	44 lon OR	01.Sep.48	Automated Wireless-Call Completion Using a Paging Network
	08/584416	5802470	AT&T Wireless	Onlied States	06-1197-11		Method and Apparatus for Spatial Redundancy in
507 115	9007022	5950134	AT&T Wireless	United States	08-Sep-97	07-Sep-99	Cellular Networks
			AT8T Mirelese	Capada	08-Apr-98	09-1ut-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.CA	2234322	2234322	CCOLONIA MARINE		02, lin. 08		Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.CN	98109554.2		Al&i Wireless		20 102 20		Analog-to-Digital
593.DE	98302715.2	69806856.4	AT&T Wireless	Germany	07-Apr-98	31-Jul-02	Transition: Selecting the Optimal Cellular Radio Mix
		170000	ATET Wireless	European Patent	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.EPC	98302715.2	0000		90000	07-Anr-98	31~Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.FR	98302715.2	883317	Alar Wieless	Great Britain	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.GB	98302715.2	883317	Alai Wileless				Analog-to-Digital Transition: Selecting the
593.JP	10-152363		AT&T Wireless	Japan	05-unr-20		Analog-to-Digital
ď	08/868403	5960339	AT&T Wireless	United States	03-Jun-97	28-Sep-99	Transition: Selecting the Optimal Cellular Radio Mix
593.US	08/868403	5960339	AT&T Wireless	United States	יפיווט-ט		

	Application Number	Patent Number	Owner	Country	Application Date	Grant	9
ľ						200	Automatic Cellular
				European Patent			Telephone Registration for
٠,١	97103159.6	793375	AT&T Wireless	Convention	26-Feb-97	26-Nov-03	Number Service
							Automatic Cellular
	97103159.6	97103159.6	AT&T Wireless	Great Britain	26.Fah.07	26 Nov 03	Universal Telephone
						20101	Automatic Cellular
	45001/1997		A TOTAL	<u>.</u>			Telephone Registration for Universal Telephone
			Aldi Wildiass	Sapail	/6-0a07		Number Service
							Automatic Cellular
	10-1997-0006587		ATRT Wilespee	7 things	1000	<u> </u>	Universal Telephone
			אוומומא	Soull Voice	76-091-07		Number Service
							Automatic Cellular
							l elephone Registration for
	08/608232	5960340	AT&T Wireless	United States	28-Feb-96	28-Sep-99	Number Service
		٠					Wireless Communications
							Celiular Architecture for
	08/862095	6002935	AT&T Wireless	United States	22-May-97	14-Dec-99	Resource Allocation
							Wireless Communications
							Cellular Architecture for
	09/893869		AT&T Wireless	United States	29-Jun-01	. •	Resource Allocation
							Method for Predicting the
							Station in a Mobile
	08/941231	6052598	AT&T Wireless	United States	30-Sep-97	18-Apr-00	Communications Network
					•		Method for Self-Calibration
	2204815	2204815	AT&T Wireless	Canada	08.842.07	12 4.12 03	or a Wireless
				00000	00-WBy-51	50-Any-31	Mothod for Solf Calibration
					.*.		of a Wireless
	2350939		AT&T Wireless	Canada	08-May-97		Communication System
							Method for Self-Calibration
	2352594		AT&T Wireless	Canada	08-Mav-97		of a Wireless
							Wireless Communication
	1116398.7	•	AT&T Wireless	European Patent	08. ht-01		System With Adaptive
					1		Charinel Angcauon

Application	Patent		Country	Application	Grant Date	Title	
Number	Number	Owner	Name	Date		Method for Self-Calibration	
		<u> </u>		24-Oct-97		or a Wireless Communication System	
291857/1997		AT&T Wireless	Japan			Method for Self-Calibration	
						of a Wireless Communication System	
2001 20E58A		AT&T Wireless	Japan	10-10-01		Method for Self-Calibration	
			States Polici	25-Oct-96	29-Oct-02	Of a Wireless Communication System	
	6473623	AT&T WIreless	<del>                                     </del>			Method for Self-Calibration of a Wireless	
	6775540	AT&T Wireless	United States	08-Oct-02	10-Aug-04	Communication System Method for Self-Calibration	
	250010		Soft O Post	30-Dec-98	17-Dec-02	of a Wireless Communication System	
09/222894	6496699	AT&T Wireless	United States			Method and System for Providing Access to a	
						Telecommunications	
	9034000	AT&T Wireless	Canada	12-Mar-98	18-Feb-03	Method and System for	
	0761677					Providing Access to a	
						Telecommunications	
>		AT&T Wireless	China P.R.	02-Jun-98		Method and System for	
Y.00001186						Providing Access to a	
						Telecommunications	
•		AT&T Wireless	Germany	02-Mar-98	19-May-04	Network Suctom for	
98301494.5	883315	Algi Wiciosa		-		Method and System to Providing Access to a	
			Conean Datent			Telecommunications	
		AT&T Wireless	Convention	02-Mar-98	19-May-04	Network System for	-
98301494.5	883315	2000		   .		Providing Access to a	
						Telecommunications	
			00000	02-Mar-98	19-May-04	Network	
98301494.5	883315	AT&T Wireless	Liailco			Method and System for	_
						Providing Access to a	
						Telecommunications	
ų	882215	AT&T Wireless	Great Britain	02-Mar-98	19-May-04	Method and System for	1
98301494.5	515500					Providing Access to a	_
			*			Telecommunications	-
		ATOT Missions	- India	01-Apr-98		Network	7
687/MAS/98		AT&T Wireless	India	01-Apr-98			Network
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Docket	Application	Datont		Country	Application	Grant		
Number	Number	Number	Owner	Name	Date	Date	Title	
							Method and System for	for
		•			-		Providing Access to a	æ
598.JP	10-145257		AT&T Wireless	nenel	27.Mav.98		Telecommunications Network	
			2000		22 (211)		Method and System for	٤
			٠				Providing Access to a	
		•					Telecommunications	ا
598.MX	984354		AT&T Wireless	Mexico	01-Jun-98		Network	
							Method and System for	for
							Providing Access to a	9
. 598.US	08/868407	•	AT&T Wireless	United States	03-Jun-97		Telecommunications	
							International Roaming	g
						•	Service for Permitting a	. e
	:						Cellular/Wireless	•
							Telephone Instrument to	at to
							Access Different Wireless	eless
00000				-			Telephone Network	
900.BK	0003715-0		AT&T Wireless	Brazil	21-Aug-00		Systems	
		•					International Roaming	g
							Service for Permitting a	ga
							Cellular/Wireless	
							Telephone Instrument to	ے و
							Access Ulfferent Wireless	eless
600 CA	2346088		ATOTAGE	90000	44 A	•	l elephone Network	
5000	2310000		Alal Wireless	Canada	17-Aug-00		Systems	
							International Roaming	<u>۔۔</u>
	•						Service for Permitting a	ga
							Cellular/Wireless	
							l elephone Instrument to	<u>۔</u>
				Furnosan Datent			Access Unferent Wireless	Seje
600.EPC	112746.3	•	AT&T Wireless	Convention	16-hm-00		Systems	
							International Roaming	٥
			٠				Service for Permitting a	ga
							Cellular/Wireless	
							Telephone Instrument to	할
							Access Different Wireless	eless
9		•					Telephone Network	
900.JP	2000-254818		AT&T Wireless	Japan	25-Aug-00		Systems	
			٠				International Roaming	<u></u>
				٠			Service for Permitting a	e D
600.US	09/384451	6754490	AT&T Wireless	United States	27-Aug-99	22-Jun-04	Telephone Instrument to	it to

					-			
\$0300C	Application	Patent		Country	Application	Grant	Title	
Number	Number	Number	Owner	Маше	Date		Access Different Wireless	
						, .	Systems	
•							International Roaming	
							Cellular/Wireless	
							Telephone Instrument to	
							Access Different Wireless	
					11 1.10		Systems	
500 11S F.4	mailed		AT&T Wireless	United States	17-2011-04		Method and Apparatus for	
0.00.00							Navigation Using a Portable Communication	
			and collect Fort	United States	22-Dec-99	13-Nov-01	Device	
602.US	09/469266	6317684	Al&I Wireless	2000			Method and Apparatus to:	
							Using Power Control in a	
			ATOT Mississe	United States	21-Jan-00	11-Jun-02	Wireless System	
603.US	09/489477	6404388	AIGI WIICIGSS				Fuhanced 911 Location	
							Using Power Control in a	
		•	ATOT Mirolose	United States	24-May-02	08-Jul-03	Wireless System	
603.US.C1	10/155380	6590533	Al & I Wileless				Enhanced 911 Location	
		<i>:</i>					Using Power Control in a	
			AT&T Wireless	United States	06-Jun-03	-	Wireless System	
603.US.C1(1)	10/456052		5		46 Nov. 02	01~hin-04	System	
70 31.700	10/205203	6744383	AT&T Wireless	United States	70-40NI-C1		Enhanced Communication	
604.U3.C1	2070701						Service for Predicting and Handling Communication	
			AT&T Wireless	United States	06-Jul-01		Interruption	• •
605.US	09/900773			European Patent	18-Feb-03		Secure Online Purchasing	
606.EPC	3743137.6		AT&T Wireless	Patent				
		· 		Cooperation	18-Feb-03		Secure Online Purchasing	
606.PCT	PCT/US03/04650		AT&T Wireless	Heary Heitod States	22-Feb-02		Secure Online Purchasing	
606.US	10/080988		AT&T Wireless	United States	30-Mav-02		Secure Online Purchasing	F
606.US.CP1	10/160656		AT&T Wireless	Ollifed Oldred			A Call Queue in a Wireless	
SU. 209	10/017629		AT&T Wireless	United States	13-Dec-01		Device	٦
						•		

Docket	Application	Patent		Country	Application	Grant		ſ <u>.</u>
Number	Number	Number	Owner	Name	Date	Date	Title	
608.US	10/209754		AT&T Wireless	United States	31-Jul-02	·	Efficient Synchronous and Asynchronous Database Replication	D
609.PCT	PCT/US03/16652		AT&T Wireless	Patent Cooperation Treaty	23-May-03		System and Method for Providing a Digital Rights Scheme for Browser Downloads	
609.US	10/160695		AT&T Wireless	United States	30-May-02		System and Method for Providing a Digital Rights Scheme for Browser Downloads	<u> </u>
614.US	10/259558	•	AT&T Wireless	United States	25-Sep-02		Virtual Subscriber Network	¥
618.US	1387467		AT&T Wireless	United States	28-May-04			
619.US	10/690468	·	AT&T Wireless	United States	20-Oct-03		PIC Freeze	
621.US	10/155917		AT&T Wireless	United States	24-May-02		Biometric Authentication of a Wireless Device User	ō
622.PCT	PCT/US04/07235		AT&T Wireless	Patent Cooperation Treaty	09-Mar-04		Multi-Standard Prepaid Communication Services	
622.US	-445686		AT&T Wireless	United States	18-Mar-03		Multi-Standard Prepaid Communication Services	
625.PCT	PCT/US03/36316		AT&T Wireless	Patent Cooperation Treaty	12-Nov-03		Prepaid Telecommunications System	
625.US	10/295233		AT&T Wireless	United States	14-Nov-02		Prepaid Telecommunications System	<u> </u>
628.US	10/840810		AT&T Wireless	United States	07-May-04		System and Method for SMS Text Routing	
630.US	10/282742	-	AT&T Wireless	United States	28-Oct-02	·	Text Abbreviation Methods and Apparatus and Systems Using Same	ş
632.US	10/282909	٠	AT&T Wireless	United States	28-Oct-02		Speech to Message Processing	
633.US	mailed	,	AT&T Wireless	United States	19-Feb-03		Interrogate Response Communication (IRC)	
634.US.CP1	10/279170		AT&T Wireless	United States	23-Oct-02		Interactive Education Tool	*
635.US	10/634977		AT&T Wireless	United States	04-Aug-03		Receiver Test System	
636.US	10/253403		AT&T Wireless	United States	23-Sep-02		Cell Planning Methods and Apparatus, and Networks	و .
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Title	Based on	Methods and Apparatus for	Formatting Information for	ication	Conditional Application	Invocation in a Wireless		ed Device	Behavior Management	Nework	Charging and Kating	Divice	Automated Device Bobovior Management	Preset	es -	Control of Security of	Fase-of-Use Sensitivity for	a Wireless Communication		Verification System for	Facilitating Transactions	Inication	Networks and Associated	Metrod Coppral Durnose	Automated Activation and	Provisioning Technologies	Self-Activation via Wired	Web and Device	System and Method for Network Data Quality	ment	Networks and Methods	Integrating Digital Mobile	sp	Interface for a Multi-	Messaging System	Autopopulation of Address	ntries
	Configured Based on Same	Methods a	Formatting	a Communication	Conditiona	Invocation	Device	Authomated Device	Behavior	Based on Network	Charging ar	CONTOUNDING :	Automate Pobardor	Based on Preset	Preferences	Control	Face-of-1	a Wireles	Device	Verification	Facilitatir	via Comunication	Networks	Method	Automate	Provision	Self-Acti	Web and	Network	Measurement	Network	Integrati	Standards	Interface	Messag	Autopop	Book Entries
Grant Date																									•				٠,					-			
Application Date				22. hul.02	70.00		19-Dec-02				,	19-Dec-02				19-Dec-02			19.000.02					20-Dec-02		31-Oct-03		01-Nov-02		24 Dec 02	1-Dec-04		23-May-03		12-Feb-03		16-Jan-03
Country A		•			United States 22		United States 19	t			-	United States 19				United States 18	-	-	1 Laited Chatee	+		·		United States 2		1 Inited States	+	United States 0			United States		1 Inited States		United States	*	United States
	Owie				AT&T Wireless		000100000000000000000000000000000000000	Al & I Wireless				AT&T Wireless				AT&T Wireless				AT&T Wireless				AT&T Wireless			Al&i Wireless	AT&T Wireless	2000		AT&T Wireless			Al&i Wireless	AT&T Wireless		AT&T Wireless
Patent	Number						•			•					•								3	•										, ,			
Application	Number			-	216500			10/324494				1	10/324354			40/224460	10/324139			10/324870				40,000	10/323400		10/700301		60/423224		1779371			10/445173		10/364421	
Docket	Number				51180			639.US					640.US			-	641.US			642.US			, .		644.US		645.US	-	645P.US		SHER	20.025	:	649.US		652.US	

Docket	Application	Patent		Country	Application	Grant		
Number	Number	Number	Owner	Name	Date	Date	Title	
				9-4-0			Location Determining	-
				Patent			System for Wireless	· · ·
				Cooperation			Network and Associated	ated
655.PCT	PCT/US03/18449		AT&T Wireless	Treaty	10-Jun-03		Method (Friend Finder)	er)
		-	:			•	System for Providing	
						•	Location-Based Services in	vices in
							a Wireless Network, Such	Such
							as Locating Individuals and	als and
655.US	10/324984		AT&T Wireless	United States	20-Dec-02		Coordinating Meetings	gs
							System for Providing	
							Location-Based Services in	rices in
							a Wireless Network, Such	Such
	-		•				as Modifying Locating	6
							Privileges Among	
~~~							Individuals and Managing	guige
							Lists of Individuals	
701120							Associated with Such	
655.UST	10/325566		AT&T Wireless	United States	20-Dec-02		Privileges	
							Apparatus and Systems for	ms for
							Providing Location-Based	ased
							Services Within a Wireless	reless
655.US2	10/325270		AT&T Wireless	United States	20-Dec-02		Network	
							Data Structures and	
				•			Methods for Location-	 _
						•	Based Services Within a	li a
655.US3	10/325032		AT&T Wireless .	United States	20-Dec-02		Wireless Network	
							Method for Providing	
			-		٠		Location-Based Services in	rices in
							a Wireless Network, Such	Such
655.US4	10/325322		AT&T Wireless	United States	20-Dec-1/2		as Varying Levels of	
				Datent	12.222		201100	T
	•			Conneration				-
658.PCT	PCT///S03/35439		AT&T Wireless	Treaty	24-Oct-03		Comminication Events	or each
			2000	7	3		Profile Oriver Response to	C) oso
658.US	10/281651		AT&T Wireless	United States	28-Oct-02		Communication Events	nse to
865 110	10/617437		A TO T 14(1-1-1-2-2	I laited Chates	201-1		Simplified Wireless Device	)evice
20000	10,011		Alal Wireless	Ollited States	I nni-no		Pairing	
	٠			Patent			System and Method for	for
				Cooperation			Wide-Area Wireless	2
668.PCT	PCT/US03/33513		AT&T Wireless	Treaty	23-Oct-03		Networks	
				!				

Docket	Application	Patent	. '	Country	Application	Grant Date	Title
Number	Number	Number	Owner	Name			System and Method for
					. !		Wide-Area Wireless Networks
0			AT&T Wireless	United States	20-Dec-02		System and Method for
88.US	-321138			Patent			Content Delivery Using
<del>,                                     </del>				Cooperation	22 Oct 03	٠.	Wireless Network
569.PCT	PCT/US03/33593		AT&T Wireless	Ireaty	20-00-02		System and Method for
					•		Alternate Data Paths in a
669.US	10/324613		AT&T Wireless	United States	20-Dec-02		System and Method for
				Patent Cooperation		**	Delivering Data Services in Integrated Wireless Networks
670.PCT	PCT/US03/33594		AT&T Wireless	Treaty	23-Oct-03		System and Method for
	.:						Integrated Wireless
. 31 020	10/324667		AT&T Wireless	United States	20-Dec-02		Improved Delivery of
6/0.03	2007		AT&T Wireless	United States	02-Jan-03		Network Services
679.US	2428042		CONTRACTOR OF THE PARTY OF THE				Improved Delivery of
680.US	2428773		AT&T Wireless	United States	02-Jan-03		Improved Delivery of
	00000	 	AT&T Wireless	United States	02-Jan-03		Network Services
681.US	25/8888			1 Inited States	02-Jan-03		Network Services
682.US	2574139		A1&1 Wireless	Daniel Daniel			
			·	Social Of Control	07-Anr-03		Improved Delivery of Network Services
685.US	10/410662	-	AT&T Wireless	United States	07 85 03		Improved Delivery of Network Services
. Sec. US	10/410663		AT&T Wireless	United States	20-140-10		One Button Access to
			ATRT Mireless	United States	07-Jul-03		Network Services from a Remote Control Device
690.US	10/612970						Automatic Device
			AT&T Wireless	United States	15-Sep-03		Network Services
691.US	2006188			Softer Chatter	27-Anr-04		Device
691.US.CP1	10/833412		AT&T Wireless	Onlied States			

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Title	Distributed Profile Storage and Management in a Telecommunication Network	Application of Dynamic Profiles to the Allocation and Configuration of Network Resources	Device and Method for Improved Text Entry on an Alphanumeric Keypad	Highly Bandwidth-Efficient Communications	Highly Bandwidth-Efficient Communications	Highly Bandwidth-Efficient Communications	Highly Bandwidth-Efficient Communications	Highly Bandwidth-Efficient Communications	Priority Messaging Method for a Discrete Multitone Spread Spectrum Communications System	Method of Polling Second Stations for Functional Quality and Maintenance Data in Discrete Multitone Spread Spectrum Communications System	Vertical Adaptive Antenna Array for a Discrete Multitone Spread Spectrum Communications System	Vertical Adabtive Antenna Array for a Discrete Multitone Spread Spectrum Communications System	Vertical Adaptive Antenna Array for a Discrete Multitone Spread Spectrum
•	Distributed Profile S and Management in Telecommunication Network	Application of Dynan Profiles to the Alloca and Configuration of Network Resources	Device and Improved Alphanume	Highly Bandwidth Communications	Highly Bandwidth Communications	Highly Bandwidth Communications	Highly Bandwidth Communications	Highly Bandwidth Communications	Priority Messaging for a Discrete Mul Spread Spectrum Communications	Method of Polling Stations for Funct Quality and Maint Data in Discrete N Spread Spectrum Communications	Vertical Adaptive Ar Array for a Discrete Multitone Spread Sp Communications Sy	Vertical Adaptive Ar Array for a Discrete Multitone Spread Sp Communications Sy	Vertical Adaptive Ar Array for a Discrete Multitone Spread Sp
Grant Date		9		Θ			19-Mar-02		16-Sep-03	12-Nov-02	29-Jul-03	24-Jun-03	24-Aug-04
Application Date	16-Jun-03	16-Jun-03	27-Jun-03	24-Feb-98	24-Feb-98	24-Feb-98	18-Dec-97	03-Aug-01	28-Nov-00	28-Nov-00	05-Aug-98	10-Dec-01	08-May-03
Country	S	United States	United States 2	Canada 2	European Patent Convention	Japan 2	United States 1	United States 0	United States 2	United States		United States	United States 0
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number							6359923		6621851	6480522	9/20099	6584144	6782039
Application Number	1027337	838873	10/609043	2283859	98910043.3	10-536984	08/993721	547744	197842	198207	09/128738	10/017903	10/435304
Docket Number	<del> </del>		696.US	700.CA	700.EPC	700.JP	700.US.C1	700.US.C1D01	700.US.C1D15	700.US.C1D16			

Docket				Country	Application	Grant	
mber	Application	Patent		Name	Date	Date	Title
	Number	Number	Owner	Dilla I			Communications System
							Vertical Adaptive Antenna
20			•			•	Array for a Discrete Multitone Spread Spectrum
			AT&T Wireless	United States	20-Jul-04		Communications System
(9)10.50.10)					03 Feb. 08	09-Apr-02	Division Duplex Communications
702.CA	2278852	2278852	AT&T Wireless	+-	02-180-20		Method for Frequency
	09009475.1		AT&T Wireless	European Patent Convention	03-Feb-98		Division Duplex Communications Method for Frequency
702.EPC	90900473.1				90		Division Duplex
702.JP	10-534899		AT&T Wireless	Japan	U3-rep-90		Method for Frequency
				Mexico	03-Feb-98	02-Aug-02	Division Duplex Communications
702.MX	997160	209442	AIGI WIIGIGSS				Method for Frequency
		707	AT&T Wireless	United States	06-Feb-97	03-Aug-99	Communications
702.US	08/796584	2933441					Method for Frequency Division Duolex
				United States	19-Apr-99	06-May-03	Communications
702.US.C1	09/294174	6260209	Aldı Wireless	2000			Method for Frequency
					07.00		Division Dublex
702.US.C1(1)	10/383976		AT&T Wireless	United States	07-Mar-03	-	Remote Wireless Unit
		:				0	Having Reduced Power
203 115	08/796586	6085114	AT&T Wireless	United States	06-rep-9/	DA INCHA	Remote Wireless Unit
3						00,200	Having Reduced Power
703.US.D1	09/222895	6047200	AT&T Wireless	United States	30-Dec-98	200	Out of Channel Cyclic
							Redundancy Code Method
							Soread Spectrum
•				. change	24-Feb-98	01-Apr-03	Communications System
704.CA	2281818	2281818	AT&T Wireless	Callada			Out of Channel Cyclic
		. :					for a Discrete Multitone
				European Patent	24.Eeb.08		Spread Spectrum Communications System
704.EPC	98911401.2		AT&T Wireless	Convention	24-1-00-00		

Docket	Application	Patent	(	Country	Application	Grant	
I I I I	ипшрег	Number	Owner	Name	Date	Date	Title
		: -					Out of Channel Cyclic Redundancy Code Method for a Discrete Multitone
704.MX	997730	209008	AT&T Wireless	Мехісо	24-Feb-98	17-Jul-02	Spread Spectrum Communications System
705.US	08/803833	5896425	AT&T Wireless	United States	24-Feb-97	20-Apr-99	Non-Uniformly Spaced Tones for Synchronization Waveform
707.US	08/806508	5864543	AT&T Wireless	United States	24-Feb-97	26-Jan-99	Transmit/Receive Compensation
707.US.C1	09/095748	6175555	AT&T Wireless	United States	11-Jun-98	16-Jan-01	Transmit/Receive Compensation
-					-&-		Method for Linearization of RF Transmission Electronics Using Baseband Pre-Distortion in
708.US	08/804615	5872814	AT&T Wireless	United States	24-Feb-97	16-Feb-99	T/R Compensation Pilot Signals
709.US	08/806507	6002664	AT&T Wireless	United States	24-Feb-97	14-Dec-99	Method for Gaining Access to a Shared Medium Which Improves Over the Slotted Aloha Scheme
710.US	08/804614	5889814	AT&T Wireless	United States	24-Feb-97	30-Mar-99	Transmit/Receive Compensation for a Dual FDD/TDD Architecture
711.US	08/803832	5909641	AT&T Wireless	United States	24-Feb-97	01-Jun-99	Transmil/Receive Switch
713.US	08/804616	5923700	AT&T Wireless	United States	24-Feb-97	13-Jul-99	Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications System
713.US.C1	09/999048		AT&T Wireless	United States	15-Nov-01		Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications System
713.US.C2	09/299079	6160839	AT&T Wireless	United States	26-Apr-99	12-Dec-00	Adaptive Weight Update Method for a Discrete Multitone Spread Spectrum Communications System
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1000	Annlication	Patent		Country	Application	Grant	<u>.</u>	
Docker	Application	Nimber	Owner	Name	Date	Date		
Number	Number	Muliba					Adaptive Weight Update Method and System for a	
	. 7						Discrete Multitone Spread	
							Spectrum Communications	
			AT9T Miroloce	United States	31-Oct-00	18-Jun-02	System	
713.US.C2C1	09/699361	6408016	AIGI WIIGIGSS				Inventory Pipeline	
0	246008	5884300	AT&T Wireless	United States	01-May-97	16-Mar-99	Management System	
715.05	-04083	200-2000					FUD Forward Citis	
						•	Beamforming Metrico for a FDD Communications	
				- Chang	23.Feb.99	31-Dec-02	System	
717.CA	2262358	2262358	AT&T Wireless	Carrada	25.03.1.07		FDD Forward Link	
							Beamforming Method for a	
				European Patent	•		FDD Communications	
702 44	00301378 R	940934	AT&T Wireless	Convention	25-Feb-99	04-Aug-04	EOD Foward Link	
71,17	0.01010000						Beamforming Method for a	
	.*:						FDD Communications	
•		70070,70	AT&T Wirelass	United States	05-Mar-98	17-Oct-00	System	
717.US	09/035286	6134261	AIGH WIIGIGSS				Near-Optimal Low-	
							Complexity Decoding of	
**					. 4		Space-Ime Codes for	٠
					10.00.08	06-Aug-02	Applications	
720.CA	2255464	2255464	AT&T Wireless	Canada	26-29-0-1	G	Near-Optimal Low-	
							Complexity Decoding of	
						-	Space-Time Codes for	٠.
				-			Fixed Wireless	
			ATRT Wirelass	Germany	17-Dec-98		Applications	_
720.DE	69823326.3-08	98124231.0	Algi Wildias		•		Near-Optimal Low-	
					. •		Complexity becoming of   Space-Time Codes for	
				- Total			Fixed Wireless	
				European ratein	17-Dec-98	21-Apr-04	Applications	_
720.EPC	98124231.6	938194	AT&T Wireless	Conversion	2000-11		Near-Optimal Low-	
							Complexity Decoding of	
		٠					Space-1 Ime Codes for	
				European Patent			Fixed Wireless	
			AT&T Wireless	Convention	17-Dec-98		Applications	T
720.EPC.D1	4009318.9						Near-Optimal Low-	
			3				Complexity Decouling of	_
•	. `						Fived Wireless	
					47 700 08		Applications	-
720.FR	98124231.6		AT&T Wireless	France	17-080-80			۱.

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o di L	Near-Optimal Low- Complexity Decoding of Space-Time Codes for Fixed Wireless	Near-Optimal Low- Complexity Decoding of Space-Time Codes for Fixed Wireless	Near-Optimal Low- Complexity Decoding of Space-Time Codes for Fixed Wireless Applications	Near-Optimal Low- Complexity Decoding of Space-Time Codes for Fixed Wireless Applications	Near-Optimal Low- Complexity Decoding of Space-Time Codes for Fixed Wireless Applications	Near-Optimal Low- Complexity Decoding of Space-Time Codes for Fixed Wireless	Transmitter Diversity Technique for Wireless Communications	Transmitter Diversity Technique for Wireless Communications	Transmitter Diversity Technique for Wireless Communications	Sender for Wireless Communications	Receiver for Wireless Communications
Grant			13-Feb-01	22-Oct-02	25-May-04					13-Jun-02	13-Jun-02
Application Date	17-Dec-98	16-Dec-98	21-Apr-98	17-Oct-00	03-Sep-02	/04-May-04	31-Aug-98	31-Aug-98	27-May-03	31-Aug-98	31-Aug-98
Country	Great Britain	Mexico	United States	United States	United States	United States	Canada	Canada	Chile	Germany	Germany
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number			6188736	6470043	6741635				·	29824763.1	29824760.7
Application Number	98124231.6	9810841	-610075	09/690542	10/234407	10/838553	2303388	2405875	1060-2003	29824763.1	29824760.7
Docket Number	720.GB	720.MX	720.US	720.US.C1	720.US.C1(1)	720.US.C1(2)	721.CA	721.CA.D1	721.CL	721.DE1 2	721.DE2 2

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•	Title	System for Wireless	Electronic Circuit for a	Receiver for Wireless Communications	Electronic Circuit for a	Sender for Wireless Communications	Transmitter Diversity	Technique for Wireless Communications	Transmitter Diversity	Technique for Wireless Communications	Transmitter Diversity	Communications	Transmitter Diversity	Communications	Transmitter Diversity	Communications	Transmitter Diversity	Communications	Transmitter Diversity	Communications	Transmitter Diversity	Communications	Transmitter Diversity	Technique for Wireless Communications	Transmitter Diversity	Technique for Wireless	Transmitter Diversity	Technique for Wireless	Communications	Method and Apparatus for		
Grant	Date	42 tin 03	30-1110-C1	13-Jun-02		13-Jun-02		25-Jun-03		25-Jun-03				25-Jun-03		25-Jun-03		10-Dec-03		· · · · · · · · · · · · · · · · · · ·				OS-Feb-01			10-Aug-04		e.		50-104-27 1	
Amiloston	Application		31-Aug-98	21. A10. 98	OC-ROU-IC	34_A10_08	200	31-410-98	SO ROUTO	31-Air-98	Sc-Sov-16	31.410-98	S. R.	31-A10-98		21_Aun_98	S Rouge	10-hil-03		24.Feb-04	2001.47		31-Aug-90	90	OF-Way-90		05-Dec-00		22-Jun-04		02-Dec-98	
	Country	1	Germany		Germany		Germany		Germany	European Patent	Convention	European Patent	Convenien		rialice		Great Diliain		Georgia	. Cook cook	Houg Mong	· · ·	Mexico		United States		United States		United States		United States	
-		Owner	AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless		AT&T Wireless	
	Patent	Number	29824761.5		29824765.8		29824762.3		1016228		1016228				1016228		1016228	***	PI3127	-					6185258		6775320	2700			6553237	
	Application	Number	29824761.5		29824765.8	200	29824762.3		69815869.5		98944605.9	Y	3010810.4		98944605.9		98944605.9		880968		4101312.5		2573		2479512		. 100000	2000004	ļ	10/873567	2022958	
	Docket	Number	724 DE3		734 054		721.DE5		721 DE6		721.EPC		721.EPC.D1		721.FR		721.GB		721.GE		721.HK		721.MX		724115	2013		721.US.C1		721.US.C1(1)	722.US	

Docket Number	Application Number	Patent	Owner	Country	Application Date	Grant	<u></u>	
				Naile	Date	Dale	ani I	
							Fuctorition Over a	500
723.US	2023689		AT&T Wireless	United States	02-Dec-98		Communication Medium	ig Engl
	•						Method for Estimating	
729.US	00/557572	·.			;		Changes in Product Life for	Life for
	2010000		Al & Wireless	United States	25-Apr-00		a Redesigned Product	5
							Low Complexity Maximum	imum
	•						Likelihood Detection of	ō
							Concatenated Space	
731.CA	2276207	2276207	ATRT Wirelace	Chanda	. 60 1-0 91	20	Codes for Wireless	
			טומו אוונונטט	Calidua	19-CG-88	18-rep-03	Applications	
							Low Complexity Maximum	imum
							Likelihood Detection of	 jo
						•	Concatenated Space	
731.CA.D1	2411286		AT&T Wireless	Canada	18.00+08		Codes for Wireless	
			550000000000000000000000000000000000000	Carlada	06-100-01		Applications	
							Low Complexity Maximum	imum,
							Likelinood Detection of	 5
			•	Furnham Patent		•	Concatenated Space	
731.EPC	98953654.5		AT&T Wireless	Convention	90 100		Codes for Wireless	-
			Section In It	COLINGIA	10-001-30		Applications	7
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							Likelihood Detection of	 ō
							Concatenated Space	
731.JP	45962		AT&T Wireless	lanan	48.04.08		Codes for Wireless	
			5555	Sapari	10-001-30		Applications	
							Low Complexity Maximum	E E
					Θ	•	Likelihood Detection of	 ō
							Concatenated Space	
731.JP.D1	2003-298814		AT&T Wireless	Japan	14-A110-03		Applications	
							Can Completible Median	
							Likelihood Detection of	
						•	Concatenated Space	
734 117							Codes for Wireless	
731.MA	320086	216468	AT&T Wireless	Mexico	16-Oct-98	19-Sep-03	Applications	
			•				Low Complexity Maximum	E E
			•	•			Likelihood Detection of	
							Concatenated Space	
731.MX.D1	PA/a/2003/003469		AT&T Wireless	Mavim	24. Ans. 02		Codes for Wireless	
			2000	2000	20-10-17		Applications	
	-		•				Low Complexity Maximum Likelihood Detection of	
731.US	09/167422	6501803	AT&T Wireless	United States	06-Oct-98	31-Dec-02	Concatenated Space	
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Appli	Application	Patent		Country	Application Date	Grant Date	Title
N	Number	Number	Owner	Name			Codes for Wireless
			-				Applications
							Low Complexity Maximum
	***						Concatenated Space
							Codes for Wireless
				Haited Ctates	13.Dec-01	•	Applications
1167225			AT&T Wireless	United States	22220		Low Complexity Maximum
							Likelihood Detection of
			-				Concatenated Space
				-			Codes for Wireless
			ATOT IAII POPA	United States	30-Dec-02		Applications
1739925			AIGI WIIEIESS	2000 2000			Method for Combining
							Communication Beams in
							a Wireless Communication
			ATOT Windoce	United States	30-Apr-99	23-Apr-02	System
09/303266	99	6377783	Alat Wireless	Source Country			Method for Combining
							Communication Beams in
							a Wireless Communication
	(		ATRT Mirelose	United States	16-Jan-02		System
10/046243	43		Alai Wildias	2000			Method for Location-
000773			AT&T Wireless	United States	04-Jun-99		Based Asset Management
-244080							Method for Location-
mailed			AT&T Wireless	United States	14-Sep-04	.	Method and Apparatus for
				-			Vibration and Temperature
			ATOT Missions	1 Inited States	13-Mav-99	10-Dec-02	Isolation
09/311820	920	6491528	AIGH WIEBESS	College College			Maximum Ratio
	. 9	. 0750170	AT&T Wireless	United States	17-Sep-98	01-Oct-02	Transmission
09/156066	990	0428/40	Aldi Wilding				Maximum Ratio
401477464			AT&T Wireless	United States	19-Jun-02		Transmission
	0						Compensation in an OFDM
				Cototo Legi-11	27 May 00	27-Aug-02	System With Diversity
09/321457	457	644222	AT&T Wireless	Ourted States	CC_(DIAL_17	B	Method for Error
		-					Compensation in an OFDM
		-	AT&T Windless	1 Inited States	24-Jun-02		System With Diversity
10/176643	643		AIGH WHICHES				Method for Error
							Compensation in an OFDM
	g	*	AT&T Wireless	United States	21-May-04		System With Diversity
3	3		ATET Wireless	United States	24-Mar-00		
09/535365	5365		AIGIGS AND				Method for Improving
102506	Œ		AT&T Wireless	Argentina	23-May-00		Efficiency in a Time

Dockot	Application	10000			A		
Number	Number	Number	Owner	Name	Application	Grant Date	Title
							Sharing Network
738.BR	75120		AT&T Wireless	Brazil	.18-May-00		Method for Improving Efficiency in a Time Sharing Network
738.CA	2308963	2308963	AT&T Wireless	Canada	18-May-00	09-Dec-03	Method for Improving Efficiency in a Time Sharing Network
738.EPC	110197.1		AT&T Wireless	European Patent Convention	16-May-00		Method for Improving Efficiency in a Time Sharing Network
738.MX	5014		AT&T Wireless	Mexico	24-May-00		Method for Improving Efficiency In a Time Sharing Network
738.US	09/546794		AT&T Wireless	United States	11-Apr-00		Method for Improving Efficiency in a Time Sharing Network
744.US	-248485	6363127	AT&T Wireless	United States	00-nn(-60	26-Mar-02	Automatic Gain Control Methods and Apparatus Suitable for Use in OFDM Receivers
744.US.C1	10/051714	6574292	AT&T Wireless	United States	17-Jan-02	03-Jun-03	Automatic Gain Control Methods and Apparatus Sultable for Use in OFDM Receivers
744.US.C1(1)	10/414576		AT&T Wireless	United States	14-Apr-03		Automatic Gain Control Methods and Apparatus Suitable for Use in OFDM Receivers
745.EPC	1964443.4		AT&T Wireless	European Patent Convention	25-Mar-03		Methods and Apparatus for Use in Reducing Residual Phase Error in OFDM Communication Signals
745.PCT	PCT/US01/26621		AT&T Wireless	Patent Cooperation Treaty	24-Aug-01	·	Methods and Apparatus for Use in Reducing Residual Phase Error in OFDM Communication Signals
745.US	09/670286		AT&T Wireless	United States	25-Sep-00		Methods and Apparatus for Use in Reducing Residual Phase Error in OFDM Communication Signals
747.AR	10100520		AT&T Wireless	Argentina	05-Feb-01	·	Detection of Cross- Connection Between a

et         Application Number         Patent Number         Country Application Date Date Date           Number         Number         Date Date Date           09/502655         AT&T Wireless         United States         11-60.00           103102         AT&T Wireless         Argentina         21-Jun-00           103105         AT&T Wireless         Argentina         21-Jun-00           103106         AT&T Wireless         Argentina         21-Jun-00           1         544822         AT&T Wireless         United States         14-Jun-00           2         630289         6309087         AT&T Wireless         United States         14-Jun-00		· .						
Number   Number   Owner   Number   Owner   Number   Owner   Number   Owner	Docket	Application	Patent		Country	Application Date	Grant Date	Title
103102   AT&T Wreless   United States   11-Feb-00	Nimber	Number	Number	Owner	Name			Wireless Loop Network
103102   AT&T Wireless   United States   11-Feb-00   AT&T Wireless   AT&T Wi								and Another Loop Network
103102   AT&T Wireless   United States   14-Jun-00   14-May-02   14-Jun-00								at a Subscribers Premises
103106   AT&T Wireless   United States   11-Feb-00   AT&T Wireless   United States   14-Jun-00   AT&T Wireless   United States   AT&T Wireless   AT&T Wireless   United States   AT&T Wireless   AT&T Wireless   United States   AT&T Wireless								Detection of Cross-
1 103102 AT&TWreless United States 11-Feb-00 and MAXTWreless United States 11-Feb-00 and MAXTWreless Argentina 21-Jun-00 SS SS SS 103105 AT&TWreless Argentina 21-Jun-00 SS SS SS AT&TWreless Argentina 21-Jun-00 SS SS SS AT&TWreless United States 14-Jun-00 SS SS SS SS SS AT&TWRELESS United States 14-Jun-00 SS SS SS SS SS AT&TWRELESS United States 14-Jun-00 14-May-02 SS SS SS SS SS AT&TWRELESS United States 14-Jun-00 14-May-02 SS SS SS SS SS SS SS SS ST AT&TWRELESS United States 14-Jun-00 14-May-02 SS								Connection Between a
103105   11-Feb-00   11-Feb-	_		-					Wireless Loop Network
103102   AT&TWireless   United States   11-Feb-00   AT&TWireless   United States   11-Feb-00   AT&TWireless								and Another Loop Network
103102   AT&TWireless   United States   11-0-0-0   No. M.					Chatter of Chatter	11-Foh-00		at a Subscriber's Premises
103102 AT&TWireless Argentina 21-Jun-00 Sy	3112	09/502655		AT&T Wireless	United States	200		Apparatus and Method for
103102   AT&T Wireless   Argentina   21-Jun-00   Strands   States   State	47.03	03/2020						Synchronization in a
103102   AT&T Wireless								Multiple-Carrier
103102   AT&T Wireless   Argentina   21-Jun-00   On the Color								Communication System by
103102   AT&T Wireless   Argentina   21-Jun-00   Si								Observing a Plurality of
103105   AT&T Wireless Argentina   21-Jun-00   G   G   G   G   G   G   G   G   G						24 1::0 00		Synchronization Indicators
103106 AT&T Wireless Argentina 21-Jun-00 G G G G G G G G G G G G G G G G G G	,00	103103		AT&T Wireless	Argentina	71-Juli-00		Apparatus and Method for
103106 AT&I Wireless Argentina 21-Jun-00 G G G G G G G G G G G G G G G G G G	48.AK1	103102	·					Synchronization in a
103106   AT&T Wireless   Argentina   21-Jun-00   G   S   S		, r.				. •	. •	Multiple-Carrier
103106 AT&T Wireless Argentina 21-Jun-00 S S S S S S S S S S S S S S S S S S	•							Communication System b
103106 AT&T Wireless Argentina 21-Jun-00 S S S S S S S S S S S S S S S S S S								Observing Energy Within
103106  103105  AT&T Wireless Argentina 21-Jun-00						24 1:10 00		Guard Band
103105 AT&T Wireless Argentina 21-Jun-00 B A AT&T Wireless United States 14-Jun-00 I4-May-02 AT&T Wireless United States 14-Jun-00 I4-Jun-00 A AT&T Wireless United States I4-Jun-00 I4-Jun-00 A AT&T Wireless United States I	604 671	103106		AT&T Wireless	Argentina	20-1m2-12		System and Method for
103105 AT&T Wireless Argentina 21-Jun-00 B F F F F F F F F F F F F F F F F F F	148.AKZ	201201						Synchronization in a
103105   AT&T Wireless   Argentina   21-Jun-00   P F F F F F F F F F F F F F F F F F F								Multiple Carrier
103105  AT&T Wireless Argentina 21-Jun-00							. '	Communication System t
103105 AT&T Wireless Argentina 21-Jun-00 A A AT&T Wireless United States 14-Jun-00 C C C C C C C C C C C C C C C C C C C								Observing a Phase-
103105   AT&T Wireless   Argentina   21-Jun-00   A A A A A A A A A A A A A A A A A A								Frequency Relationship
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544822 AT&T Wireless United States 14-Jun-00 C C C C C C C C C C C C C C C C C C	748 AR3	103105		AT&T WIREIESS	Augumia			Apparatus and Method to
544822 AT&T Wireless United States 14-Jun-00 14-May-02 1 AT&T Wireless United States 14-Jun-00 14-May-02 1 AT&T Wireless United States 14-Jun-00 14-May-02 1 AT&T Wireless United States 14-Jun-00					-			Synchronization in a
544822								Multiple-Carrier
544822		•	*					Communication system
544822         AT&T Wireless         United States         14-Jun-00         14-May-02           2         630289         AT&T Wireless         United States         14-Jun-00         14-May-02           3         AT&T Wireless         United States         14-Jun-00         14-Jun-00								Observing a Flurality of
544822 A18.1 Wheless Child States 14-Jun-00 14-May-02 1		=		A TO T MAILE LANGE	1 Inited States	14-Jun-00		Synchronization indicate
630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 AT&T Wireless United States 14-Jun-00 AT&T Wireless United States 14-Jun-00	748.US1	544822		AIGI WIIGIGSS				Apparatus and Memod I
630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 AT&T Wireless United States 14-Jun-00 AT&T Wireless United States 14-Jun-00								Synchronization in a
630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 AT&T Wireless United States 14-Jun-00 AT&T Wireless United States 14-Jun-00		,						Multiple-Carrier
630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 AT&T Wireless United States 14-Jun-00 AT&T Wireless United States 14-Jun-00								Communication System
630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 AT&T Wireless United States 14-Jun-00 AT&T Wireless United States 14-Jun-00	•					•		Observing Energy Withii
630289 6389087 AT&T Wireless United States 14-Jun-00 14-May-02 AT&T Wireless United States 14-Jun-00		-						Guard
630289 6389087 A181 Wireless United States 14-Jun-00				ATOT Wireless	United States	14-Jun-00	14-May-02	Band
AT&T Wireless United States 14-Jun-00	748.US2	630289	6389087	AIGH WHELES				Apparatus and Memod
SEBOR2 AT&T Wireless United States 14-Jun-00								Multiple-Carrier
GERGR2   United States   14-July							·	Communication System
	2401163	AREOR?		AT&T Wireless	United States	14-300-00	  -  -	

10000 I	Application	Patent		Country	Application	Grant	····
Number	Number	Number	Owner	Name	Date -	Date	Title
							Observing a Phase-
							a Plurality of Pilot Signals
							Methods and Apparatus for
							Use in Obtaining
							Frequency Synchronization
749.AR	103104		AT&T Wireless	Argentina	21-Jun-00		in an OFUM
				2			Methods and Apparatus for
							I lee in Obtaining
				Patent			Frequency Synchronization
749 PCT	00000000000000000000000000000000000000			Cooperation			in an OFDM
0 5	TC1/USU0/40232		AT&T Wireless	Treaty	15-Jun-00		Communication System
							Methods and Apparatus for
							Use in Obtaining
							Frequency Synchronization
749.US	1155142	6768714	AT&T Wireless	United States	14-Jun-00	27-111-04	In an OFOM Control Control
							Methods and Apparatus for
		-					The in Obtaining
	•					•	Freduency Synchronization
750 150							in an OFDM
130.03	1136603	6700866	AT&T Wireless	United States	14-Jun-00	02-Mar-04	Communication System
							Methods and Apparatus for
	•			Patent			Use in Obtaining Frame
				Congration			Synchronization in an
751.PCT	PCT/US01/15891	•	AT&T Wireless	Treaty	16.May.01		OFDM Communication
			200	, con	10-48401		System
						•	Methods and Apparatus for Use in Obtaining Frame
							Synchronization in an
764 110							OFDM Communication
07.10	452050		AT&T Wireless	United States	13-Jun-00		System
				•			Method and Apparatus for
٠.				•			Use in Reducing Traffic
						:	Over a Communication
752.AR1	103100		AT&T Wireless	Argentina	21-Jun-00	·	Link Used by a Computer Network
				Patent			Reverse Turineling
		-		Coopomion	-		Methods and Apparatus for
752.PCT2	PCT/US00/16432		AT&T Wireless	Treaty	14~Jun-00		Use With Private Computer
752 1164 04	40,000,00						Methods and Apparatus for
132.031.01	10/120/10		AT&T Wireless	United States	11-Apr-02		Use in Reducing Traffic

							-	
40,000	Annlication	Patent		Country	Application	Grant	Title	
Number	Nimber	Number	Owner	Name	Date	Date	Over a Communication	
Number	Mulipa						Link Used by a Computer	
				*			Network	
*							Methods and Apparatus to	
							Voice and High Speed	
		-					Data in a Wireless	
			-			٠. ٠	Comminication System	
			AT&T Wireless	Argentina	21-Jun-00		Mothod and Annaratus for	
754.AR	103103						Use in Communicating	
		•		1000			Voice and High Speed	
				Patent			Data in a Wireless	
				Cooperation	15. hin-00		Communication System	
754 PCT	PCT/US00/16700		AT&T Wireless	reary	20-line-Ci		Methods and Apparatus for	
					•	•	Use in Communicating	
							Voice and High Speed	
•							Comminication System	
			AT&T Wireless	United States	14-Jun-00		System and Method for	
754.US	1002105						Data Scramifing to	
							Reduce the Crest Factor in	
					00 411, 00		an OFDM Waveform	
755 AB	103064		AT&T Wireless	Argentina	00-Uni-02		System and Method for	
133.00					:	<i>:</i>	Data Scrambling to	
	:			Furonean Patent			Reduce the Crest Factor in	
		• .		Convention	00-Jun-60		an OFDM Waveform	_
755.EPC	938236.7		AT&T Wireless	COLINGIA			System and Method for	
				Patent		<u>:</u>	Data Scrambling to	
				Cooperation			Reduce the Crest Factor in	·
			ATETMInology	Treaty	09-Jun-00		an OFDM Waverorm	
755.PCT	PCT/US00/15836		Algi viigiga				System and Metrico for	
		•					Data Scratting in the Crest Factor in	
					00 11	21-A10-04	an OFDM Waveform	
766110	. 627971	6785258	AT&T Wireless	United States	00-Jun-00	2	System and Method for	
. 33.03							Data Scrambling to	
							Reduce the Crest Factor in	
				1 taited Chates	30.0110.04	:	an OFDM Waveform	
755.US1	mailed		AT&T Wireless	Ollieu States	B		Design for Scalable	
							Network Management	
			AT&T Wireless	Argentina	15-Jun-00		Systems Systems	7
758.AR	102967						System and intention for	•
			!		00-011-00	06-Feb-03	Availability	<u>.</u>
760.TW	89112312	163403	AT&T Wireless	Laiwari	25-101-22			

Application		Patent		Country	Application	Grant	
Number		0	Owner	Name	Date	Date	Title
09/572144 6445912 AT&T Wireless		AT&T Wir	eless	United States	17-May-00	03-Sep-02	System and Method for Checking Service Availability
09/511168 AT&T Wireless	AT&T Win	AT&T Win	eless	United States	24-Feb-00		Intelligent Presentation Network Management Systems
0005942-0 AT&T Wireless	AT&T W	AT&T W	ireless	Brazil	20-Dec-00		Session Subscription System and Method for Same
2326572 AT&T V	AT&TV	AT&TV	AT&T Wireless	Canada	16-Nov-00		Session Subscription System and Method for Same
311492.3 AT&T V	AT&TV	AT&T V	AT&T Wireless	European Patent Convention	20-Dec-00		Session Subscription System and Method for Same
12896 AT&T Wireless	AT&T W	AT&T W	freless	Mexico	20-Dec-00		Session Subscription System and Method for Same
09/474839 AT&T Wireless	AT&T W	AT&T W	ireless	United States	30-Dec-99		Session Subscription System and Method for Same
106901 AT&T Wireless	AT&TW	AT&T W	ireless	Argentina	22-Dec-00		Subscription-Based Billing Methods and Systems for Shared Network Modern Pools
0006220-0 AT&T Wireless	AT&TW	AT&T W	reless	Brazil	21-Dec-00		Subscription Based Billing Methods and Systems for Shared Network Modern Pools
309465.3 AT&T Wireless	AT&T W	AT&T W	/ireless	European Patent Convention	27-Oct-00		Subscription-Based Billing Methods and Systems for Shared Network Modern Pools
12898 AT&T Wireless	AT&T W	AT&T W	reless	Mexico	20-Dec-00		Subscription-Based Billing Methods and Systems for Shared Network Modem Poots
09/665780 AT&T Wireless	AT&T W	AT&T W	ireless	United States	20-Sep-00		Subscription Based Billing Methods and Systems for Shared Network Modem Pools
10/028573 AT&T Wireless	AT&T W	AT&T W	reless	United States	19-Dec-01		Synchronization of Encryption in a Wireless Communication System

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	A	Datont		Country	Application	Grant	· i
Docket	Application	Latein	- Januar	Name	Date	Date	Title
Number	Number	Number	CALICA				Data Link Layer Tunneling
							Technique for High Speed
						24 Fob 04	Foodpath a rousy will cross
31,022	00/604043	6697983	AT&T Wireless	United States	24-Oct-00	74-1 20-01	Data Link Laver Tunneling
20.02	Stetenien						Tocholone for High Speed
							Catalia a Maisy Wireless
							Data III a Noisy VIII cicas
			AT&T Wireless	United States	28-Jan-04		Environment
770.US.C1	10/767246		200			. •	Medium Access Dynamic
							Congestion Control
							Mechanism for Wireless
	•			United States	21-Dec-00	20-Jul-04	Data
772.US1	09/745216	6765869	AT&I WIFBIESS	חוונפת סומנכט			Medium Access Dynamic
							Congestion Control
							Mechanism for Wireless
			ATOT Missions	United States	21-Dec-00	20-Jul-04	Data
772.US2	09/745219	6765870	A I & I WIREIESS	מווונפת פיימינים			Collision-Free Multiple
		.*			·.·		Access Reservation
			·	Furnham Patent			Scheme for Multi-Tone
	·			Convention	11-Dec-00		Modulation Links
775.EPC ·	311028.5		A1& Wireless	COLINGINGIA			Collision-Free Multiple
		<u> </u>					Access Reservation
		:					Scheme for Multi-Tone
				United States	18-Jul-00		Modulation Links
775.US	09/618653		A1&1 WIRBIESS	Olilled States			Method and Apparatus for
							Efficient Sharing of
							Communication System
			440 + 14 (1-1)	I Inited States	28-Nov-00		Resources
778.US	228522		A I & I WITEIESS	OIIIICA CIGICO			Method and Apparatus for
		:					Efficient Sharing of
,	:	•	÷			÷	Communication System
			A TOT Mission	1 Inited States	19-Aug-04		Resources
778.US.C1	mailed		AIGI WIIGIGSS	2000			A Real-Time System for
		:		•			Measuring the Ricean K-
			ATPT Wifrolose	Argentina	08-Feb-01		Factor
779.AR	10100580		AIGI WIIGIGSS	Datent			A Real-Time System for
				Cooperation			Measuring the Ricean K-
		* * * * * * * * * * * * * * * * * * * *		Troops	07-Feb-01		Factor
779.PCT	PCT/US01/03854		AT&I Wireless	licaly		-	System and Method for
		•		: :	:		Providing Service Provider
					:	:	Choice Over a High-Speed
704 110	10/036315		AT&T Wireless	United States	26-Dec-01		Data Connection
101.03	20000		ATOT Missions	Amentina	13-Jul-01		Adaptive Dual-Polarization
782.AR	10103358		AIGH WIREIBSS	- Charles			
			* .				

							and the spin
Docket Number	Application Number	Patent Number	Owner	Country	Application	Grant	,,
					Dale	Date	litle
		•	-				Orthogonal Frequency
•				0000			Division Multiplexed Signal
782.PCT	PCT/US01/18993		AT&T Wireless	Cooperation Treaty	5		Multicarrier Transmission
			2000	liedly	13-Jun-01		Using Polarized Antennae
							Adaptive Dual-Polarization
							Communication of
782.US1	09/616128		AT&T Wireless	United States	14-Jul-00		Orthogonal Frequency Division Multiplexed
							Transmit Power Control for
784.US	2665785		AT&T Wireless	1 Inited States			an OFDM-Based Wireless
			2000	Conten States	28-rep-01		Communication System
		•					Method for Shared
•							Network Modern Dialup
786110							Miral Access Over a
20.00	03/8/9350		AT&T Wireless	United States	12-Jun-01		VVIreless Network Using
							Method of Determining RF
		•					Coverage Area in a Point-
/87.US	09/874570		AT&T Wireless	United States	05-Jun-01		to-Multipoint Transmission
							System -
	*						Transparent Public
789.AR	10102824						Addressed Notherto
	10102024		AT&T Wireless	Argentina	13-Jun-01		Within Private Networks
	-						Method for Providing
						•	Transparent Public
/89.MY	Pi20012764		AT&T Wireless	Malaysia	13-Jun-01		Addressed Networks Within Private Networks
							Method for Providing
			•				Transparent Public
WT.687	90113964		AT&T Wireless	Toime			Addressed Networks
			אוומומא	I diwaii	18-Oct-01		Within Private Networks
-		•					Method for Providing
01.001							I ransparent Public
789.03	722695	•	AT&T Wireless	United States	28-Nov-00		Addressed Networks
	•						Within Physic Networks
		0					Method for Estimating Changes in Product Life
792.US	624006/60		ATET Mirelage	. 1-11-1 04-4-1	-		Resulting From HALT
			Alat wireless	United States	06-Jul-01		Using Exponential

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Maille			Acceleration Model
							Method for Estimating
						• .	Changes in Product Life Resulting From HALT
·				. •			Using Quadratic
,			AT&T Wireless	United States	06-Jul-01		Acceleration Model
793.US	722006/60						Turbo Channel Estimation for OFDM Systems
794.US	09/878555		AT&T Wireless	United States	10-000-11		System and Method of
					·		Assigning Priority to Remote Units in a Collision
	:			٠	·		Free Multiple Access
			AT&T Wireless	United States	24-Jul-03		Protocol Sustain and Method of
798.US	761 779/01						Assigning Priority to
	: : : : : : : : : : : : : : : : : : : :		•		*		Remote Units in a Collision
:	:						Free Multiple Access
	2700000		AT&T Wireless	United States	25-Jul-02		1000001
7987.05	00/389042			European Patent	10-Mav-04		Method for Synchronization of Received Signals
802.EPC	malled		AT&T Wireless	Convention	TO LOWIST		Time Synchronization
	:	:					Method for Method OFDM
802.US	4628		AT&T Wireless	United States	22-Oct-01		A Real-Time Rate Control
		:		Patent			Mechanism for Multi-Rate
				Cooperation		<del></del>	Data Transmissions in Wireless Networks
TOGER	DCT// IS03/08721	·.	AT&T Wireless	Treaty	Z1-Mar-U3		A Real-Time Rate Control
010.01				<i>:</i>			Mechanism for Multi-Rate
				:			Data Transmissions in Wireles Networks
816115	10/116160	:	AT&T Wireless	United States	05-Apr-02		System and Method for
20:010							Channel Assignment With
			•	č			Wireless Communications
817.US	-374098		AT&T Wireless	United States	24-Apr-02		Multi-Service Network
		-				:	Interface Apparatus for
				Patent		;	Frequency-Division
				Cooperation	30.Anr.02		Communications Systems
819.PCT	PCT/US02/13758		AT&T Wireless	l reary	30-104-06		
						•	

Docket	Application	Patent		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
						·	Multi-Service Network
							Interface Apparatus for
84016.04							Militiplexed
019.03.01	09/8/9358	6687374	AT&T Wireless	United States	12-Jun-01	03-Feb-04	Communications Systems
							Prepaid Calling Time
							Processing: A Method and
							Apparatus for Processing
							Pre-Paid Calling Time in a
852.US	09/578031	6707894	AT&T Wireless	Linited Chater			Telephone Communication
			אוומומאס	Oillied Siglies	24-May-00	16-Mar-04	System
							Prepaid Calling Time
_							Processing: A Method and
							Apparatus for Processing
							Pre-Paid Calling Time in a
852.US.C1	10/751672		AT&T Wireless	United States	05-Jan-04		Felephone Communication
053110							Network Designati
633.03	10/615892		AT&T Wireless	United States	07-Jul-03		Converter
		_			•		Integration of Wireless and
854.US	1964915		AT&T Wireless	United States	15. San 03		External Computing
					2000		Devices
010							Findernating by LTTD
636.03	10///3555		AT&T Wireless	United States	05-Feb-04		Proxy
057110	2077207						Terminal Device ID
20.100	2711/81		AT&T Wireless	United States	15-Sep-03		Address Authentication
862.US	10/685616		AT&T Wireless	Cototo Potici	20 10 11		Location Announcement
			אוומומסס	Olikeu States	14-Oct-03		for Mobile Devices
							Method, System and
							Apparatus for Providing
863P.US	60/520073		AT&T Wireless	United States	15-Nov-03		Standard Tologhono
							Providing Location
٠.						,	Information for Wireless
874.US	10/685614		AT&T Wireles	I Inited States	8 10 2		Devices Using Name
				OTHIGO OTHERS	4-00-103		Service
					•		Distributed Handling of
879P.US	60/543952		AT&T Wireless	United States	11-Feb-04		Wireless Device
				¥-			Method and Apparatus for
880.US	10/776507		ATPT Milanian	The state of the state of			Providing Quality of
	1000		Alai wireiess	United States	12-Feb-04		Service Through Multiple

			•				-
Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Carrier IP Networks
							System and Method for
	340	,			<del>- ; -</del>	,	Planning and Operating a Telecommunications
				Otato	25-Mar-04		Network
883P.US	60/557153		AT&T Wireless	United States			Terminal-Based Server for
		· ′	ATOT Mireles	United States	24-Sep-04	χ.	Location Tracking
886.US	mailed		Algi Wildigg			•	Sharing Content on Moune
	40,001608		AT&T Wireless	United States	09-Apr-04		System and Method for
887.US	10/02/1000						Voice Recognition Using
		٠		Linited States	20-Mav-04		User Location Information
888.US	mailed		AT&I Wireless	Ollifed Otales			Spam Control for Share
9	701000101		AT&T Wireless	United States	09-Apr-04		Page in Wireless World
889.US	10/02/10/				100		Network
894 US	10/763862		AT&T Wireless	United States	72-Jan-04		System for Providing
20.750							Location-Based Services in
-							a Wireless Network, Such
÷	·						as Locating Sets of
	20100		AT&T Wireless	United States	15-Apr-04		Desired Locations
8854.05	00/302/03				44 Most 03		Personal Base Station with Wireless Video Capability
SU 988	60/519947		AT&T Wireless	United States	14-I40V-03		Managing Differences in
							User Devices When Sharing Content on Mobile
				Linited States	09-Apr-04		Devices
897.US	10/821325		AT&T Wireless	Olilleo States			Call Handling Scheme to
211900	10/867957		AT&T Wireless	United States	14-Jun-04	12	Call Handling Scheme to
			4.10.141.141.141.4	1 Inited States	27-Jan-04		Reduce Roaming Charges
906P.US	60/539780		AIGH WHERESS				Method and System for
	:	: 	_				of Movable Wireless
				Linited States	13-Sep-04		Networks
908.US	mailed	;	AT&I Wireless	חווופח סומופא			Method and System for
		.:.		: :: ::			Controlling the Operation of Movable Wireless
21.0000	60/540020		AT&T Wireless	United States	05-Mar-04		Networks Customized Signature
50. John	0.700			1 Inited States	30-Jun-04		Message Service
915.US	10/881672		Ald Wireless	Ollifor Carro			
		•					

Docko*	Ameliantian	1			1000		
Number	Number	Number	Owner	Name	Application Date	Grant Date	Title
921P.US	mailed	•	AT&T Wireless	United States	19-Aug-04		Testing for Mobile Device Locator Systems, Such as for E911 Phase II
922.US	malled		AT&T Wireless	United States	13-Aug-04		Wireless Device Service Activation from a Wireless Device
925.US	mailed		AT&T Wireless	United States	14-Sep-04		Selection of Bearer Mode According to Message Characteristics
926.US	mailed		AT&T Wireless	United States	14-Sep-04		Maintaining Instant Message Session Status in Dynamic Operating Environments
927P.US	60/588307		AT&T Wireless	United States	15-Jul-04		Using Emoticons, Such as for Wireless Devices
928P.US	60/588110		AT&T Wireless	United States	15-Jul-04		Help Buddy for Instant Messaging on a Wireless Device
929.US	mailed		AT&T Wireless	United States	.03-Sep-04		System and Method for Data Organization and Display in an instant-Messaging Interface
930.US	mailed		AT&T Wireless	United States	14-Sep-04		Dedicated Wireless Device Business Method
930P.US	60/590185		AT&T Wireless	United States	21-Jul-04		Dedicated Wireless Device Business Model
931.US	mailed		AT&T Wireless	United States	10-Sep-04		Always On Mobile IM / Messaging Centric Wireless Device
931P.US	60/590229		AT&T Wireless	United States	21-Jul-04		Always On Mobile IM / Messaging Centric Wireless Device
936.US	mailed		AT&T Wireless/IXI Mobile	United States	20-Sep-04		Mobile Communications Device
237.CA	2231255		AT&T Wireless/Atmel Corp.	Canada	30-Aug-96		Wireless Corhmunication System Having Mobile Stations Establish a Communication Link Through the Base Station

Country Application Owner Name Date
AT&T Wireless/Atmel Canada 30-Aug-96
AT&T Wireless/Atmel European Patent Convention 30-Aug-96 Corp.
AT&T  Wireless/Atmel Japan 30-Aug-96
AT&T  Wireless/Atmel  Mexico  30-Aug-96
AT&T Wireless/Atmel United States 08-Sep-95
AT&T AT&T Wireless/Atmel United States 04-Nov-98
AT&T Wireless/Atmel Canada 30-Aug-96
2
AT&T Wireless/Atmel
atent
Convention 30-Aug-30
Wireless/Auriel France 30-Aug-96 Corp.

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant	<u> </u>
						233	Mobile Telecommunication
							Device and Method Used
			ATRT				for Changing Wireless
			Wireless/Atmot				Communication Between
238.GB	96940621.4	848888	Corp.	Great Britain	30-Aug-96	16-Jan-02	Base Stations of Different
			AT&T				A Mobile
238.JP	9-511293		Wireless/Atmel				Telecommunicating Device
	007110		Con.	Japan	30-Aug-96		and Method of Operation
		-					Mobile Telecommunication
							Device and Method Used
			AT&T				for Changing Wireless
238 MX	081810	50,000	Wireless/Atmel				Base Stations of Different
	901019	20242/	Corp.	Mexico	30-Aug-96	15-Jun-01	Kinds
							Mobile Telecommunication
			٠				Device and Method Used
			AT&T				for Changing Wireless
238116	0000		Wireless/Atmel				Base Stations of Different
200:00	-20260	5732360	Соф.	United States	08-Sep-95	24-Mar-98	Kinds (PBS #3)
	٠	-					Centralized
			AT&T	European Patent			Communications Network
S46.EPC	3739732		Wireless/Nortel	Convention	11-Feb-03		Apparatus
				Datont			Centralized
			747V	Congration			Communications Network
546.PCT	PCT/US03/04036		Wireless/Nortel	Treaty	44-Eob 03		Charging Methods and
			10100100000000	lically.	0-0a-11		Apparatus
							Commission Notice
546118	40/200440		AT&T		٠		Charging Method and
	01150501		Wireless/Nortel	United States	11-Feb-03		Apparatus
			ATRT				Telecommunications
546P1.US	60/356579		Wireless/Nortel	United States	11-Feb.02		Nework Centralized
					7000		Charging System Lopology
546P2.US	60/356578		AT&T Wireless/Nortel	United States	41.Esh 02	<u>.</u>	Payment Methods and
				Cilico Ciarco	70-02		Apparatus
							Method for Implementing Service Logic Via
456.US	09/406278		AT&T/AT&T	Inited Chates	0,000		Database Table
			VVII GIGGS	Sales namo	24-38p-83		Transversals

Date Title	Calling Party Paid Wireless	30-Oct-01 System	Method and Apparatus for	Automatic Confirmation of	Short Message Service	Delivery	Method and Apparatus for	Network-Assisted	Chot Message Service	Delivery	Method and Apparatus for	Network-Assisted	Short Message Service	Delivery	Method and Apparatus for	Network-Assisted	Short Message Service	Delivery	Wireless Internet Call	Waiting Service	Methods and Apparatus for	Conferencing	Methods and Apparatus for	Conferencing	TDMA Communication	Power Control	TDMA Communication	System Having Emission 22-Jun-04 Power Control	Method and System for	Signaling Presence of Users in a Multi-Networked	Environment	Method and Apparatus for
Application Date		12-Jan-99		*		De Nov. 04	00-1001-00				no-von-en			08-Mov-04	10-101-00			06-Nov-01		12-Jan-01		11-Dec-00		04-Sep-01	╁╾	07-lun-01		16-Feb-01			07-May-01	
Country	Name	Chaited Chates	1	<u>.                                    </u>			China P.K.			European Patent	Convention		Patent	Cooperation	Treaty		·	1 Inited Chates	Office States	European Patent		Charles Charles	Ollifed Oraco	Soft Chatter	Ollifeo States	European Patent	Conveniuori	Sololy Policia	United States		United States	
	Owner		Wireless			AT&T/AT&T	Wireless		-	AT&T/AT&T	Wireless			AT&T/AT&T	Wireless		:	AT&T/AT&T	Wireless	AT&T/AT&T	Wireless	AT&T/AT&T	Wireless	AT&T/AT&T	Wireless	AT&T/AT&T	Wireless	AT&T/AT&T	Wireless		AT&T/AT&T	2000
Patent	Number		6311053	<u> </u>						٠		7	:													-,			6754506	·	,	
Application	Number		09/228646				1818413.8				10000117	10000	:	:	DCT// ISO1/47231			;	10/011554		1100127.8		09/734157		09/945868		1112965.7		-522416			-615919
Docket			0 SI 18				:	DOS.CO				DOS.ELC			10000	20.500			509 1152		524.EPC	٠	547.US		547.US.C1		558 FPC	2	558.US		•	S67.US

								15			· ·
Title	Method and Apparatus for Sharing Wireless Content	Progressive Reuse Partitioning for Improved Interference Rejection in Wireless Packet Networks	Progressive Reuse Partitioning for Improved Interference Rejection in Wireless Packet Networks	Method and Apparatus for Controlling Access to a Communication Channel	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Detecting a Loss of Key Stream Synchronization in a Communication System	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Validating Integrity of Transmitted Data	Airline Telephone Handset With Digital Passenger Control Functions and Video Game Controls
<b>Grant Date</b>				11-Jun-02					·		10-Oct-95
Application Date	09-Mar-01	15-Nov-02	15-Nov-01	04-Sep-98	14-Sep-01	18-Sep-00	15-Feb-01	15-May-02	15-May-02	12-Jun-01	21-Apr-94
Country Name	United States	Canada	United States	United States	Patent Cooperation Treaty	United States	United States	European Patent Convention	Patent Cooperation Treaty	United States	United States
Owner	AT&T/AT&T Wireless	. AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	Claircom Communications
Patent Number				6404753							D363068
Application Number	09/801635	2411899	1035707	09/148316	PCT/US01/28658	2670533	09/783843	2731814.6	PCT/US02/15451	09/879575	29/021670
Docket Number	572.US	629.CA	629.US	727.US	741.PCT	741.US	742.US	743.EPC	743.PCT	743.US	186.US

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	Application	Patent		Country	Application	Grant	<del></del>	
	Number	Number	Owner	Name	Date	Date	Title	
. 4	29580194.8	29580194.8	Claircom Communications	Germany	25-Apr-95	20-Feb-97	Airplane Telephone	Je
4,	527740/95		Claircom Communications	Japan	25-Apr-95		Airplane Telephone	ne
1	10-1996-705967	10-348946	Claircom Communications	South Korea	25-Apr-95	02-Aug-02	Airplane Telephone	ne
	965011		Claircom Communications	Mexico	25-Apr-95		Airplane Telephone	Je Je
	PCT/US95/04821	95/04821	Claircom Communications	Patent Cooperation Treaty	25-Apr-95	02-Nov-95	Airplane Telephone	je Je
•	08/040180	5463678	Claircom Communications	United States	26-Mar-93	31-Oct-95	Credit Card Reader	Jer
t	08/040179	5410597	Claircom Communications	United States	26-Mar-93	25-Apr-95	Wired Seat Back Aircraft Telephone Set	Aircraft
	08/040178	5394467	Claircom Communications	United States	26-Mar-93	28-Feb-95	Multi-Purpose Telephone Strain Relief	stephone
	08/042426	5455964	Claircom Communications	United States	26-Mar-93	03-0ct-95	Stabilization of Frequency and Power in an Airborne Communication System	requency Airborne System
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	08/451719	6393281	Claircom Communications	United States	26-May-95	21-May-02	Seamless Hand-Off for Air- To-Ground Systems	Off for Air-
	09/451579		Claircom	United States	30-Nov-99		Mutti-Nodal Digital Telephone Distribution System	al bution
	Malled		Claircom Communications	United States	14-Mar-01		Multi-Nodal Digital Telephone Distribution System	al butlon
	09/520806	6449287	Claircom Communications	United States	08-Mar-00	10-Sep-02	Short Messaging Method and System for Airborne Passengers	Method
	10/211929		.Claircom Communications	United States	02-Aug-02	••.	Short Messaging Method and System for Airborne Passengers	Method
375.US.C1(1)	10/211929		Communications	United States	70-R04-20			200

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Title	Wireless Communications	Terminal Wireless Communications	Terminal	Wireless Communications Terminal	Wireless Communications		Wireless Communications Terminal	Wireless Communications Terminal	Wireless Communications Terminal	Wireless Communications Terminal		Multithreaded Batch Processing System	Processing System	Multithreaded Batch Processing System	Method and Apparatus for Processing Discrete Billing Events	Method and Apparatus for Processing Discrete Billing	Events No-Reset Option in a	Batching Billing System	
Grant Date		10-Apr-95	29-Sep-95	29-Sep-95	70 Y		20-Apr-00	26-Feb-96	05-Jul-95	05-Jul-95		16-Mar-04	18-Dec-01	16-Sep-97			03-Mar-98		
Application		14-Dec-94	21-Dec-94	21-Dec-94	č	77-Dec-34	22-Dec-94	22-Dec-94	22-Dec-94	22-Dec-94		04-Sep-01	04-Jun-97	19-Apr-94	23-Feb-95		19-Apr-94	23-Feb-95	3
Country	Name	Germany	Finland	Finland		France	Italy	Japan	Sweden	popomis	CMCCCC	United States	United States	United States	Canada		United States	Canada	
	Owner	McCaw Cellular Communications	McCaw Cellular Communications	McCaw Cellular Communications	McCaw Cellular	Communications	McCaw Cellular Communications	McCaw Cellular	McCaw Cellular Communications	McCaw Cellular	Communications	Teleflex Information Systems, Inc.	Teleflex Information Systems, Inc.	Teleflex Information Systems, Inc.	Teleflex Information	Systems, inc.	Systems, Inc.	Teleflex Information Systems, Inc.	
Patent	Number	M9409857.3	17729	7120	00.11	946994		69203	57901		57902	6708226	6332167	60000	2660000		5724584	·	
Application	Number	M9409857.3	961/04		862/94	946994		10940000254	39446/1994	6 16746	942576	00/044380	08/868942		08/229526	2184368	08/698277	2184369	┨.
Docket	Number	153 DE			153.FL.2	153.FR		153.IT	153.JP	153.5E.1	153.SE.2	************************************	2001-1E001	000	2001-TE001	2001-TE002	2001-TE002	2004 TEOD3	

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
2001-TE003	09/938827	6658488	Teleflex Information Systems, Inc.	United States	27-Aug-01	02-Dec-03	No-Reset Option in a Batching Billing System
2001-TE003		6282519	Teleflex Information Systems, Inc.	United States	28-Jun-99	28-Aug-01	No-Reset Option in a Batch Billing System
2001-TE003	08/377610	5999916	Teleflex Information Systems, Inc.	United States	25-Jan-95	07-Dec-99	No-Reset Option in a Batching Billing System
2001-TE003.C1	10/622106	-	Teleflex Information Systems, Inc.	United States	17-Jul-03		No-Reset Option in a Batching Billing System

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